



# **STIC Search Report**

## **EIC 1700**

**STIC Database Tracking Number: 198349**

**TO: Eisa Elhilo**  
**Location: REM 9C19**  
**Art Unit : 1751**  
**August 11, 2006**

**Case Serial Number: 10/611968**

**From: Ross Shipe**  
**Location: EIC 1700**  
**REMSSEN 4B31**  
**Phone: 571/272-6018**  
**Ross.Shipe@uspto.gov**

### **Search Notes**

Examiner Elhilo:

Please review the attached search results.

If you have any questions or if you would like to refine the search query, please feel free to contact me at any time.

Thanks you for using EIC 1700 search services!

Ross Shipe (ASRC)  
Technical Information Specialist



# STIC Search Results Feedback Form

**EIC17000**

Questions about the scope or the results of the search? Contact *the EIC searcher* or contact:

Kathleen Fuller, EIC 1700 Team Leader  
571/272-2505 REMSEN 4B28

## Voluntary Results Feedback Form

- I am an examiner in Workgroup:  Example: 1713
- Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to EIC1700 REMSEN 4B28

=> d his full

(FILE 'HOME' ENTERED AT 13:17:38 ON 11 AUG 2006)  
FILE 'REGISTRY' ENTERED AT 13:19:31 ON 11 AUG 2006

L6 STRUCTURE  
L9 SCR 2108  
L10 SCR 2106  
L15 SCR 1664  
L16 21 SEA SSS SAM L6 AND (L9 OR L10) AND L15  
L17 1672 SEA SSS FUL L6 AND (L9 OR L10) AND L15  
SAV L17 ELH968/A

FILE 'HCAPLUS' ENTERED AT 14:48:59 ON 11 AUG 2006

L18 1613 SEA ABB=ON PLU=ON L17  
L19 1 SEA ABB=ON PLU=ON L18 (L) ALDEHYDE? (2A) ?CURSOR?  
L20 2 SEA ABB=ON PLU=ON L18 AND ALDEHYDE? (2A) ?CURSOR?  
D SCAN TI  
L21 129 SEA ABB=ON PLU=ON L18 AND ALDEHYDE?  
L22 1 SEA ABB=ON PLU=ON L21 AND ESSENTIAL OIL?/SC,SX  
D SCAN TI  
L23 17 SEA ABB=ON PLU=ON L18 (L) (HAIR? OR KERATIN? OR FIBER?  
FIBRE?) (2A) (DYE? OR COLOR? OR COLOUR?)  
L24 2 SEA ABB=ON PLU=ON L18 (L) (HAIR? OR KERATIN? OR FIBER?  
FIBRE?) (2A) (DYE? OR COLOR? OR COLOUR?) AND ALDEHYDE?  
L25 18 SEA ABB=ON PLU=ON L18 AND (HAIR? OR KERATIN? OR FIBER?  
FIBRE?) (2A) (DYE? OR COLOR? OR COLOUR?)  
L26 1 SEA ABB=ON PLU=ON L18 AND (HAIR? OR KERATIN? OR FIBER?  
FIBRE?) (2A) (DYE? OR COLOR? OR COLOUR?) AND ENZYME?  
L27 2 SEA ABB=ON PLU=ON L18 AND (HAIR? OR KERATIN? OR FIBER?  
FIBRE?) (2A) (DYE? OR COLOR? OR COLOUR?) AND ALDEHYDE?  
L28 19 SEA ABB=ON PLU=ON L19 OR L20 OR L22 OR L23 OR L24 OR  
L25 OR L26 OR L27  
L29 17 SEA ABB=ON PLU=ON L28 AND (1840-2003)/PRY,AY,PY

=> file reg

FILE 'REGISTRY' ENTERED AT 15:03:46 ON 11 AUG 2006  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2006 American Chemical Society (ACS)

=> d l29 que stat

L6 STR

Hy=N~NH2  
1 2 3

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED  
ECOUNT IS M1 N AT 1

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 3

STEREO ATTRIBUTES: NONE

L9 SCR 2108  
L10 SCR 2106  
L15 SCR 1664  
L17 1672 SEA FILE=REGISTRY SSS FUL L6 AND (L9 OR L10) AND L15  
L18 1613 SEA FILE=HCAPLUS ABB=ON PLU=ON L17  
L19 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L18 (L) ALDEHYDE? (2A)

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?CURSOR?
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?CURSOR?
L21      129 SEA FILE=HCAPLUS ABB=ON PLU=ON L18 AND ALDEHYDE?
L22      1 SEA FILE=HCAPLUS ABB=ON PLU=ON L21 AND ESSENTIAL
OIL?/SC, SX
L23      17 SEA FILE=HCAPLUS ABB=ON PLU=ON L18 (L) (HAIR? OR
KERATIN? OR FIBER? FIBRE?) (2A) (DYE? OR COLOR? OR
COLOUR?)
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KERATIN? OR FIBER? FIBRE?) (2A) (DYE? OR COLOR? OR
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L25      18 SEA FILE=HCAPLUS ABB=ON PLU=ON L18 AND (HAIR? OR
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L28      19 SEA FILE=HCAPLUS ABB=ON PLU=ON L19 OR L20 OR L22 OR
L23 OR L24 OR L25 OR L26 OR L27
L29      17 SEA FILE=HCAPLUS ABB=ON PLU=ON L28 AND (1840-2003)/PRY,
AY, PY

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USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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=> d l29 1-17 ibib abs hitstr hitind

L29 ANSWER 1 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:588631 HCAPLUS

DOCUMENT NUMBER: 143:102802

TITLE: Oxidative hair dyes  
containing heterocyclical hydrazone derivatives  
and aromatic enamines

INVENTOR(S): Pasquier, Cecile; Buclin, Veronique; Kiener,  
Caroline; Duc-Reichlin, Nadja; Braun,  
Hans-Juergen

PATENT ASSIGNEE(S): Wella Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 45 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005060928	A1	20050707	WO 2004-EP12942	20041115

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA,  
CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB,  
GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,  
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX,  
MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE,  
SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,

VN, YU, ZA, ZM, ZW  
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,  
AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ,  
DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL,  
PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG  
DE 10358878 A1 20050721 DE 2003-10358878

200312  
16

PRIORITY APPLN. INFO.:

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DE 2003-10358878 A

200312  
16

OTHER SOURCE(S): MARPAT 143:102802

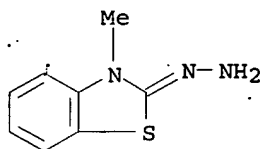
AB The invention concerns ready-to-use oxidative hair  
dyes composed of (i) heterocyclical hydrazone; (ii) arom.  
enamines or their acid addn. salts; (iii) oxidizing agents.  
Optionally, direct dyes can be added. The invention also relates to  
a multicomponent kit and to a method for dying hair. Thus  
3,4-dimethyl-2(3H)-thiazolone-hydrazone hydrochloride synthesized  
starting from 4-methyl-3-thiosemicarbazide and chloroacetone.  
Component A of a hair dye compn. contained (g):  
decylpolyglucose 50% aq. soln. 4.00; EDTA disodium hydrate 0.20;  
ethanol 5.00; 3,4-dimethyl-2(3H)-thiazolone-hydrazone hydrochloride  
0.43; water to 100. Component B included (g) 1,2,3,3,-tetramethyl-  
3H-indolium-hydrogen sulfate 0.68; potassium persulfate.

IT 1128-67-2 3161-77-1 3316-70-9  
4338-98-1 15315-48-7 20065-04-7  
20065-05-8 20065-06-9 20125-57-9  
21817-85-6 21817-86-7 21817-87-8  
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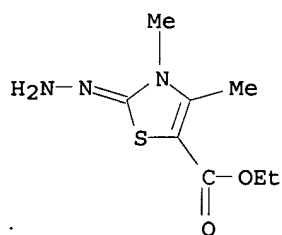
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(oxidative hair dyes contg. heterocyclical  
hydrazone derivs. and arom. enamines)

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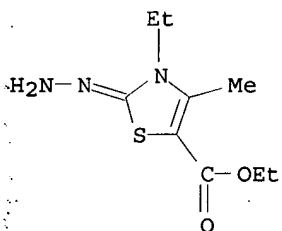
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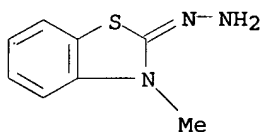
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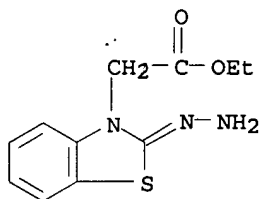


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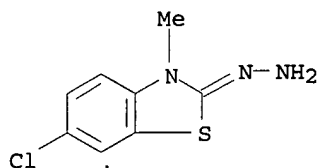


● HCl

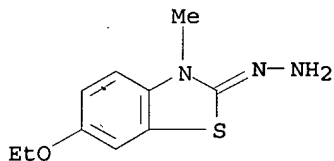
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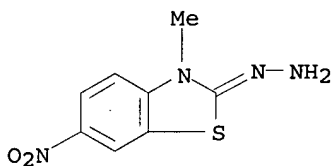
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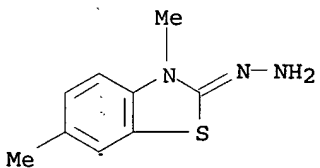
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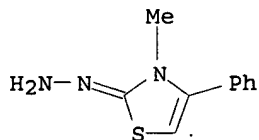
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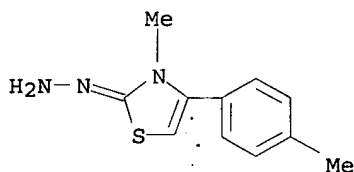
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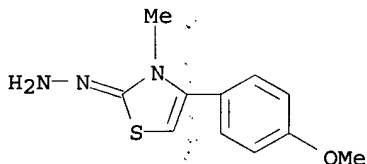
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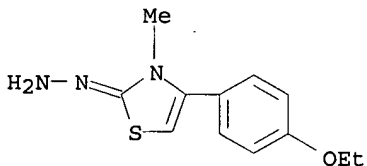
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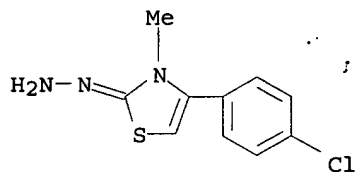


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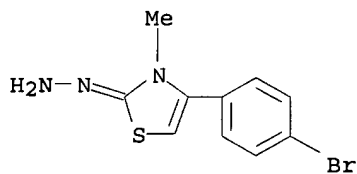


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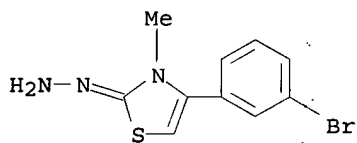




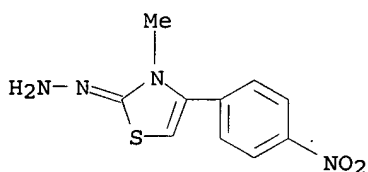
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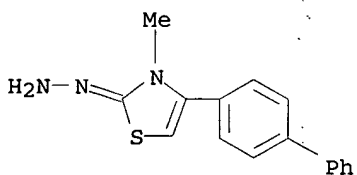
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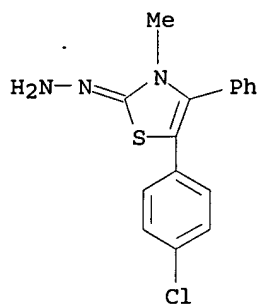


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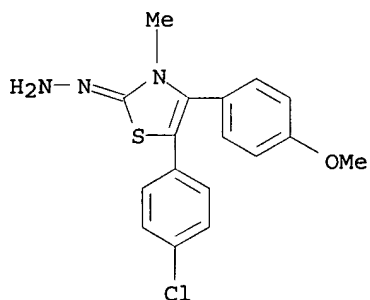


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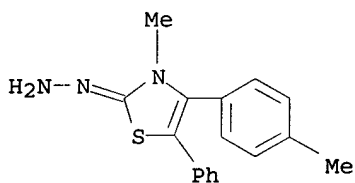
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(9CI) (CA INDEX NAME)



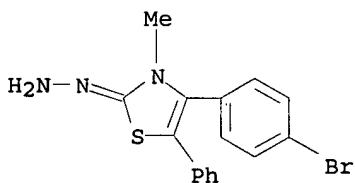
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hydrazone (9CI) (CA INDEX NAME)



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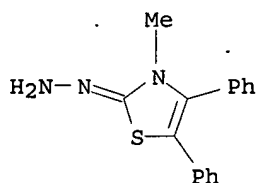


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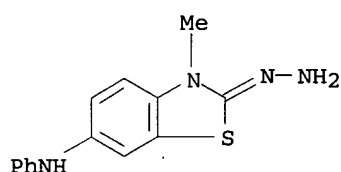
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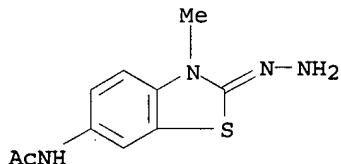
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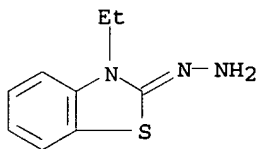
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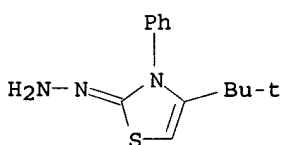
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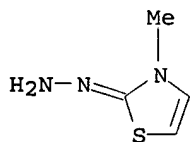


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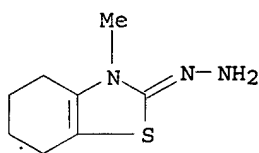
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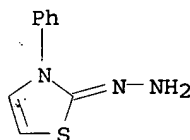
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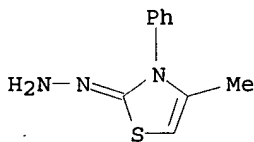
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(CA INDEX NAME)



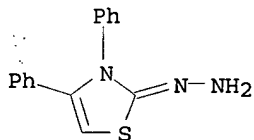
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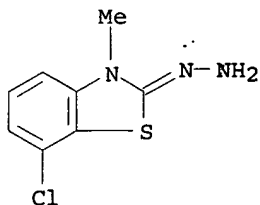
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CN 2(3H)-Thiazolone, 4-methyl-3-phenyl-, hydrazone (9CI) (CA INDEX NAME)



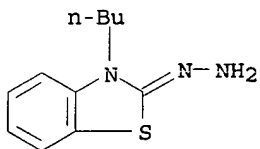
RN 41339-01-9 HCAPLUS  
CN 2(3H)-Thiazolone, 3,4-diphenyl-, hydrazone (9CI) (CA INDEX NAME)



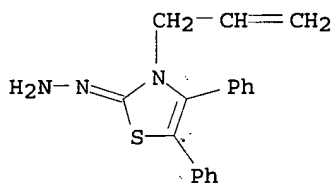
RN 51769-42-7 HCAPLUS  
CN 2(3H)-Benzothiazolone, 7-chloro-3-methyl-, hydrazone (9CI) (CA INDEX NAME)



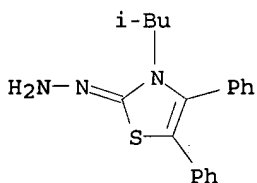
RN 60448-01-3 HCAPLUS  
 CN 2(3H)-Benzothiazolone, 3-butyl-, hydrazone (9CI) (CA INDEX NAME)



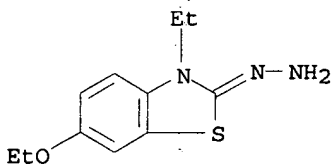
RN 64071-37-0 HCAPLUS  
 CN 2(3H)-Thiazolone, 4,5-diphenyl-3-(2-propenyl)-, hydrazone (9CI) (CA INDEX NAME)



RN 64071-38-1 HCAPLUS  
 CN 2(3H)-Thiazolone, 3-(2-methylpropyl)-4,5-diphenyl-, hydrazone (9CI) (CA INDEX NAME)

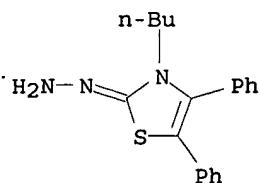


RN 64873-66-1 HCAPLUS  
 CN 2(3H)-Benzothiazolone, 6-ethoxy-3-ethyl-, hydrazone (9CI) (CA INDEX NAME)

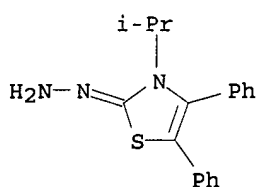


RN 67644-68-2 HCAPLUS  
 CN 2(3H)-Thiazolone, 3-butyl-4,5-diphenyl-, hydrazone (9CI) (CA INDEX NAME)

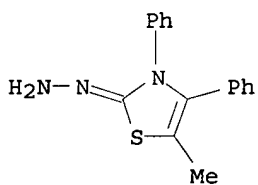
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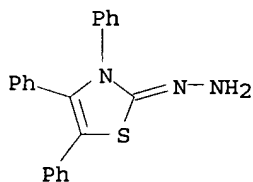
RN 67644-69-3 HCAPLUS  
 CN 2(3H)-Thiazolone, 3-(1-methylethyl)-4,5-diphenyl-, hydrazone (9CI)  
 (CA INDEX NAME)



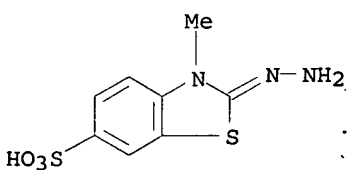
RN 68746-10-1 HCAPLUS  
 CN 2(3H)-Thiazolone, 5-methyl-3,4-diphenyl-, hydrazone (9CI) (CA INDEX  
 NAME)



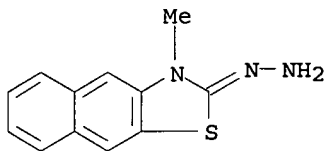
RN 68746-11-2 HCAPLUS  
 CN 2(3H)-Thiazolone, 3,4,5-triphenyl-, hydrazone (9CI) (CA INDEX NAME)



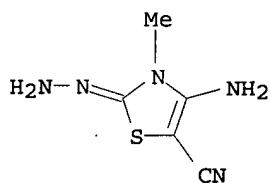
RN 71176-53-9 HCAPLUS  
 CN 6-Benzothiazolesulfonic acid, 2-hydrazono-2,3-dihydro-3-methyl-  
 (9CI) (CA INDEX NAME)



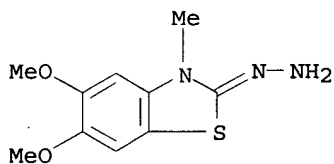
RN 76411-65-9 HCAPLUS  
CN Naphtho[2,3-d]thiazol-2(3H)-one, 3-methyl-, hydrazone (9CI) (CA INDEX NAME)



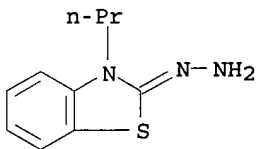
RN 81402-80-4 HCAPLUS  
CN 5-Thiazolecarbonitrile, 4-amino-2-hydrazono-2,3-dihydro-3-methyl- (9CI) (CA INDEX NAME)



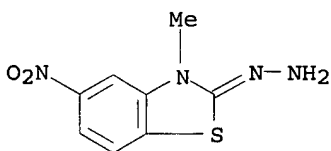
RN 94267-69-3 HCAPLUS  
CN 2(3H)-Benzothiazolone, 5,6-dimethoxy-3-methyl-, hydrazone (9CI) (CA INDEX NAME)



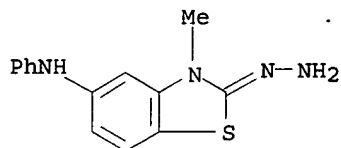
RN 104410-33-5 HCAPLUS  
CN 2(3H)-Benzothiazolone, 3-propyl-, hydrazone (9CI) (CA INDEX NAME)



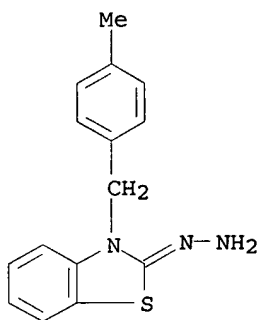
RN 108129-92-6 HCAPLUS  
CN 2(3H)-Benzothiazolone, 3-methyl-5-nitro-, hydrazone (9CI) (CA INDEX NAME)



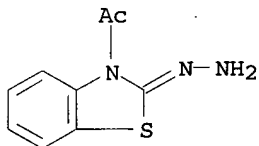
RN 109126-25-2 HCAPLUS  
CN 2(3H)-Benzothiazolone, 3-methyl-5-(phenylamino)-, hydrazone (9CI)  
(CA INDEX NAME)



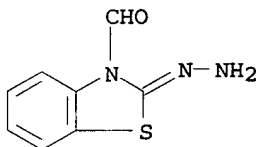
RN 109514-20-7 HCAPLUS  
CN 2(3H)-Benzothiazolone, 3-[(4-methylphenyl)methyl]-, hydrazone (9CI)  
(CA INDEX NAME)



RN 110226-87-4 HCAPLUS  
CN 2(3H)-Benzothiazolone, 3-acetyl-, 2-hydrazone (9CI) (CA INDEX NAME)

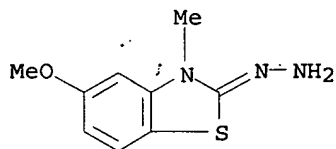


RN 110226-89-6 HCAPLUS  
CN 3(2H)-Benzothiazolonecarboxaldehyde, 2-hydrazono- (9CI) (CA INDEX NAME)

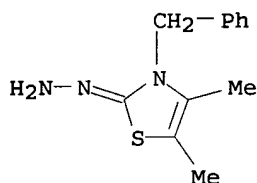


RN 110274-77-6 HCAPLUS  
CN 2(3H)-Benzothiazolone, 5-methoxy-3-methyl-, hydrazone (9CI) (CA INDEX NAME)

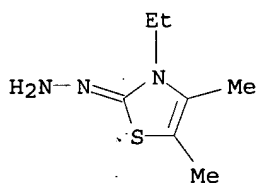




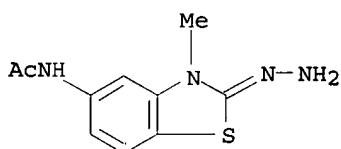
RN 111427-05-5 HCAPLUS

CN 2(3H)-Thiazolone, 4,5-dimethyl-3-(phenylmethyl)-, hydrazone (9CI)  
(CA INDEX NAME)

RN 111427-06-6 HCAPLUS

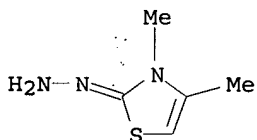
CN 2(3H)-Thiazolone, 3-ethyl-4,5-dimethyl-, hydrazone (9CI) (CA INDEX  
NAME)

RN 114098-30-5 HCAPLUS

CN Acetamide, N-(2-hydrazone-2,3-dihydro-3-methyl-5-benzothiazolyl)-  
(9CI) (CA INDEX NAME)

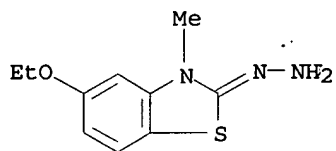
RN 114252-53-8 HCAPLUS

CN 2(3H)-Thiazolone, 3,4-dimethyl-, hydrazone (9CI) (CA INDEX NAME)



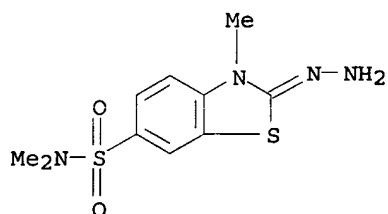
RN 117043-63-7 HCAPLUS

CN 2(3H)-Benzothiazolone, 5-ethoxy-3-methyl-, hydrazone (9CI) (CA  
INDEX NAME)



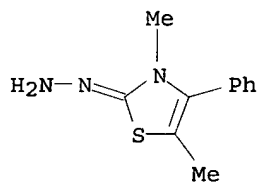
RN 130252-23-2 HCAPLUS

CN 6-Benzothiazolesulfonamide, 2-hydrazono-2,3-dihydro-N,N,3-trimethyl-  
(9CI) (CA INDEX NAME)



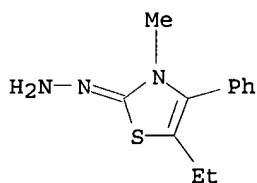
RN 138485-20-8 HCAPLUS

CN 2(3H)-Thiazolone, 3,5-dimethyl-4-phenyl-, hydrazone (9CI) (CA INDEX  
NAME)



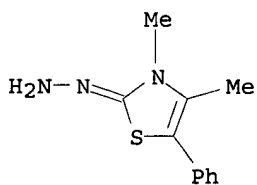
RN 138485-21-9 HCAPLUS

CN 2(3H)-Thiazolone, 5-ethyl-3-methyl-4-phenyl-, hydrazone (9CI) (CA  
INDEX NAME)

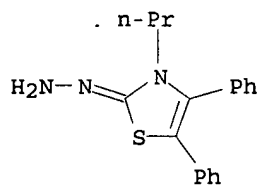


RN 138485-22-0 HCAPLUS

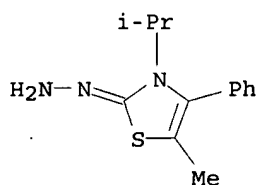
CN 2(3H)-Thiazolone, 3,4-dimethyl-5-phenyl-, hydrazone (9CI) (CA INDEX  
NAME)



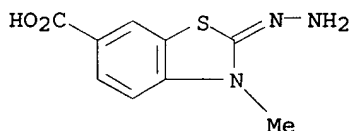
RN 139262-46-7 HCAPLUS  
 CN 2(3H)-Thiazolone, 4,5-diphenyl-3-propyl-, hydrazone (9CI) (CA INDEX NAME)



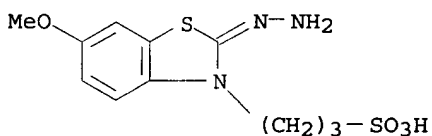
RN 157559-65-4 HCAPLUS  
 CN 2(3H)-Thiazolone, 5-methyl-3-(1-methylethyl)-4-phenyl-, hydrazone (9CI) (CA INDEX NAME)



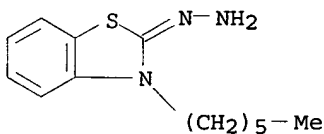
RN 185454-77-7 HCAPLUS  
 CN 6-Benzothiazolecarboxylic acid, 2-hydrazono-2,3-dihydro-3-methyl- (9CI) (CA INDEX NAME)



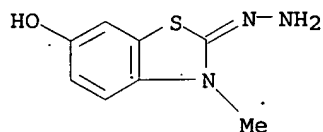
RN 200630-28-0 HCAPLUS  
 CN 3(2H)-Benzothiazolepropanesulfonic acid, 2-hydrazono-6-methoxy- (9CI) (CA INDEX NAME)



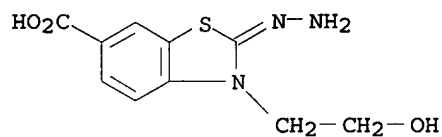
RN 215249-36-8 HCAPLUS  
 CN 2(3H)-Benzothiazolone, 3-hexyl-, hydrazone (9CI) (CA INDEX NAME)



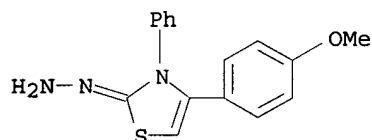
RN 382627-87-4 HCAPLUS  
 CN 2(3H)-Benzothiazolone, 6-hydroxy-3-methyl-, hydrazone (9CI) (CA INDEX NAME)



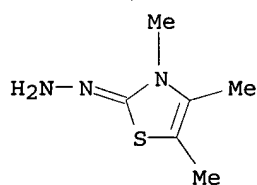
RN 383411-41-4 HCAPLUS  
 CN 6-Benzothiazolecarboxylic acid, 2-hydrazono-2,3-dihydro-3-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)



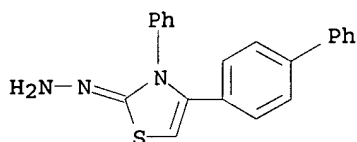
RN 676475-28-8 HCAPLUS  
 CN 2(3H)-Thiazolone, 4-(4-methoxyphenyl)-3-phenyl-, hydrazone (9CI)  
 (CA INDEX NAME)



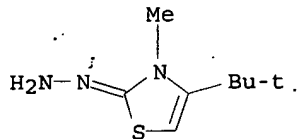
RN 692250-45-6 HCAPLUS  
 CN 2(3H)-Thiazolone, 3,4,5-trimethyl-, hydrazone (9CI) (CA INDEX NAME)



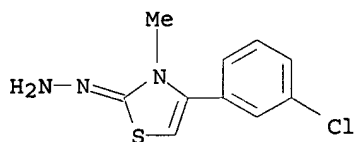
RN 718589-95-8 HCAPLUS  
 CN 2(3H)-Thiazolone, 4-[1,1'-biphenyl]-4-yl-3-phenyl-, hydrazone (9CI)  
 (CA INDEX NAME)



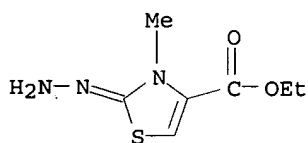
RN 753027-71-3 HCAPLUS  
 CN 2(3H)-Thiazolone, 4-(1,1-dimethylethyl)-3-methyl-, hydrazone (9CI)  
 (CA INDEX NAME)



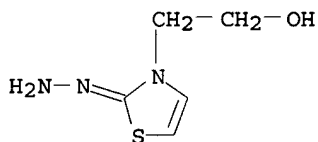
RN 753027-72-4 HCAPLUS  
 CN 2(3H)-Thiazolone, 4-(3-chlorophenyl)-3-methyl-, hydrazone (9CI) (CA INDEX NAME)



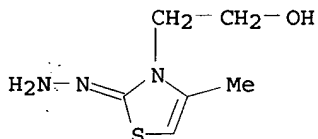
RN 753027-75-7 HCAPLUS  
 CN 4-Thiazolecarboxylic acid, 2-hydrazono-2,3-dihydro-3-methyl-, ethyl ester (9CI) (CA INDEX NAME)



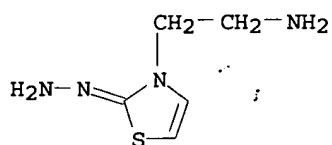
RN 753027-76-8 HCAPLUS  
 CN 2(3H)-Thiazolone, 3-(2-hydroxyethyl)-, hydrazone (9CI) (CA INDEX NAME)



RN 753027-77-9 HCAPLUS  
 CN 2(3H)-Thiazolone, 3-(2-hydroxyethyl)-4-methyl-, hydrazone (9CI) (CA INDEX NAME)

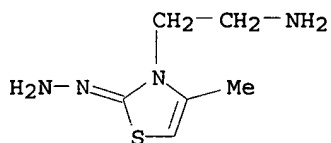


RN 753027-78-0 HCAPLUS  
 CN 2(3H)-Thiazolone, 3-(2-aminoethyl)-, hydrazone (9CI) (CA INDEX NAME)



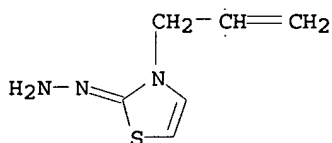
RN 753027-79-1 HCAPLUS

CN 2(3H)-Thiazolone, 3-(2-aminoethyl)-4-methyl-, hydrazone (9CI) (CA INDEX NAME)



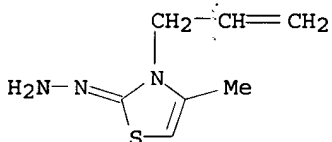
RN 753027-81-5 HCAPLUS

CN 2(3H)-Thiazolone, 3-(2-propenyl)-, hydrazone (9CI) (CA INDEX NAME)



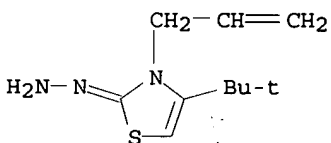
RN 753027-82-6 HCAPLUS

CN 2(3H)-Thiazolone, 4-methyl-3-(2-propenyl)-, hydrazone (9CI) (CA INDEX NAME)



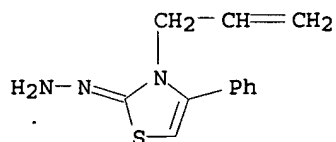
RN 753027-83-7 HCAPLUS

CN 2(3H)-Thiazolone, 4-(1,1-dimethylethyl)-3-(2-propenyl)-, hydrazone (9CI) (CA INDEX NAME)



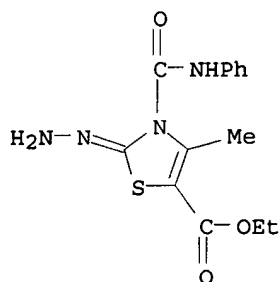
RN 753027-84-8 HCAPLUS

CN 2(3H)-Thiazolone, 4-phenyl-3-(2-propenyl)-, hydrazone (9CI) (CA INDEX NAME)



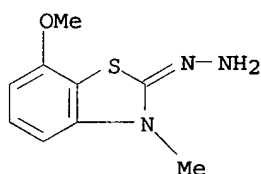
RN 753027-85-9 HCAPLUS

CN 5-Thiazolecarboxylic acid, 2-hydrazono-2,3-dihydro-4-methyl-3-[(phenylamino)carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



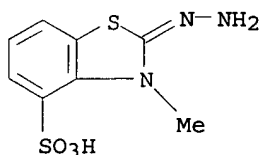
RN 753027-86-0 HCAPLUS

CN 2(3H)-Benzothiazolone, 7-methoxy-3-methyl-, hydrazone (9CI) (CA INDEX NAME)



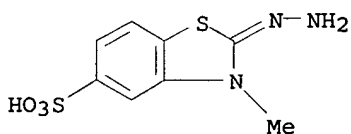
RN 753027-87-1 HCAPLUS

CN 4-Benzothiazolesulfonic acid, 2-hydrazono-2,3-dihydro-3-methyl- (9CI) (CA INDEX NAME)

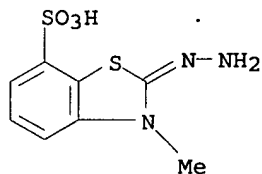


RN 753027-88-2 HCAPLUS

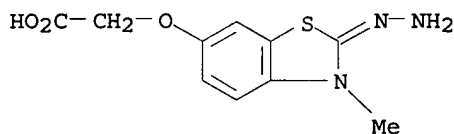
CN 5-Benzothiazolesulfonic acid, 2-hydrazono-2,3-dihydro-3-methyl- (9CI) (CA INDEX NAME)



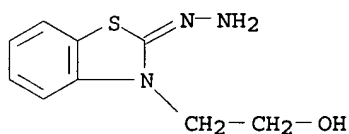
RN 753027-89-3 HCAPLUS  
 CN 7-Benzothiazolesulfonic acid, 2-hydrazono-2,3-dihydro-3-methyl-  
 (9CI) (CA INDEX NAME)



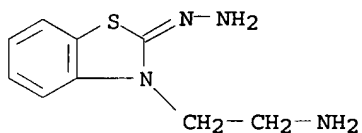
RN 753027-90-6 HCAPLUS  
 CN Acetic acid, [(2-hydrazono-2,3-dihydro-3-methyl-6-benzothiazolyl)oxy]- (9CI) (CA INDEX NAME)



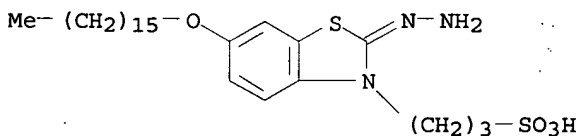
RN 753027-91-7 HCAPLUS  
 CN 2(3H)-Benzothiazolone, 3-(2-hydroxyethyl)-, hydrazone (9CI) (CA INDEX NAME)



RN 753027-92-8 HCAPLUS  
 CN 2(3H)-Benzothiazolone, 3-(2-aminoethyl)-, hydrazone (9CI) (CA INDEX NAME)

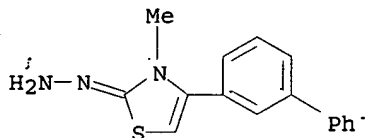


RN 753027-94-0 HCAPLUS  
 CN 3(2H)-Benzothiazolepropanesulfonic acid, 6-(hexadecyloxy)-2-hydrazono- (9CI) (CA INDEX NAME)



RN 856415-54-8 HCAPLUS  
 CN 2(3H)-Thiazolone, 4-[1,1'-biphenyl]-3-yl-3-methyl-, hydrazone (9CI) (CA INDEX NAME)





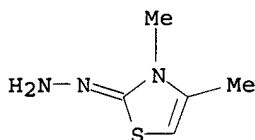
IT 68746-04-3P 68746-06-5P

RL: COS (Cosmetic use); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(oxidative hair dyes contg. heterocyclical hydrazone derivs. and arom. enamines)

RN 68746-04-3 HCAPLUS

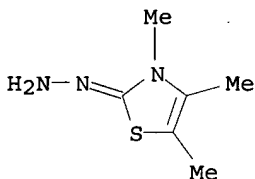
CN 2(3H)-Thiazolone, 3,4-dimethyl-, hydrazone, hydrochloride (9CI) (CA INDEX NAME)



●x HCl

RN 68746-06-5 HCAPLUS

CN 2(3H)-Thiazolone, 3,4,5-trimethyl-, hydrazone, hydrochloride (9CI) (CA INDEX NAME)



●x HCl

IC ICM A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

Section cross-reference(s): 28

ST oxidative hair dye heterocyclical hydrazone deriv arom enamine

IT Enamines

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(arom.; oxidative hair dyes contg.

heterocyclical hydrazone derivs. and arom. enamines)

IT Azo dyes

Dyes

(direct; oxidative hair dyes contg.

heterocyclical hydrazone derivs. and arom. enamines)

IT Hair preparations

(dyes, oxidative; oxidative hair dyes

contg. heterocyclical hydrazone derivs. and arom. enamines)

IT Quinones  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(dyes; oxidative hair dyes contg.  
heterocyclical hydrazone derivs. and arom. enamines)

IT Hydrazones  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(heterocyclical derivs.; oxidative hair dyes  
contg. heterocyclical hydrazone derivs. and arom. enamines)

IT Dyes  
(nitro; oxidative hair dyes contg.  
heterocyclical hydrazone derivs. and arom. enamines).

IT Oxidizing agents  
(oxidative hair dyes contg. heterocyclical  
hydrazone derivs. and arom. enamines)

IT 519-73-3D, Triphenylmethane, derivs.  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(dyes; oxidative hair dyes contg.  
heterocyclical hydrazone derivs. and arom. enamines)

IT 1128-67-2 2038-15-5, 2,3-Dimethylbenzothiazolium  
methylsulfate 2785-06-0, 2,3-Dimethylbenzothiazolium iodide  
2786-33-6, 2,3-Dimethylbenzothiazolium bromide 2786-34-7  
3119-93-5, 3-Ethyl-2-methylbenzothiazolium iodide 3161-77-1  
3316-70-9 4338-98-1 7722-84-1, Hydrogen  
peroxide, biological studies 7727-21-1, Potassium persulfate  
14933-76-7 15315-48-7 20065-04-7  
20065-05-8 20065-06-9 20125-57-9  
21635-75-6 21654-46-6, 1,2,3,3-Tetramethyl-3H-indolium-  
tetrafluoroborate 21817-85-6 21817-86-7  
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21817-90-3 21817-91-4 21817-92-5  
21882-34-8 27893-83-0 27893-84-1  
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28218-89-5 28218-90-8 28218-93-1  
28218-95-3 28219-33-2 28219-40-1  
29814-03-7, 3-Ethyl-2-methylbenzothiazolium chloride  
33167-57-6 33167-60-1 41339-01-9  
51769-42-7 52299-76-0, 3-Ethyl-2-methylbenzothiazolium  
bromide 60448-01-3 62439-66-1 64071-37-0  
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138485-22-0 139262-46-7 157559-65-4  
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RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(oxidative hair dyes contg. heterocyclical  
hydrazone derivs. and arom. enamines)

IT 68746-04-3P 68746-06-5P  
RL: COS (Cosmetic use); PRP (Properties); SPN (Synthetic)

preparation); BIOL (Biological study); PREP (Preparation); USES  
(Uses)

(oxidative hair dyes contg. heterocyclical  
hydrazone derivs. and arom. enamines)

IT 753011-47-1P

RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation);  
PREP (Preparation); RACT (Reactant or reagent)

(oxidative hair dyes contg. heterocyclical  
hydrazone derivs. and arom. enamines)

IT 78-95-5, Chloroacetone 4091-39-8, 3-Chloro-2-butanone 6610-29-3,  
4-Methyl-3-thiosemicarbazide

RL: RCT (Reactant); RACT (Reactant or reagent)

(oxidative hair dyes contg. heterocyclical  
hydrazone derivs. and arom. enamines)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR  
THIS RECORD. ALL CITATIONS AVAILABLE IN  
THE RE FORMAT

L29 ANSWER 2 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:588629 HCAPLUS

DOCUMENT NUMBER: 143:102801

TITLE: Oxidative hair dyes

containing heterocyclical hydrazone derivatives

INVENTOR(S): Pasquier, Cecile; Buclin, Veronique; Kiener,  
Caroline; Duc-Reichlin, Nadja; Braun,  
Hans-Juergen

PATENT ASSIGNEE(S): Wella Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 43 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005060927	A1	20050707	WO 2004-EP12941	20041115

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA,  
CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB,  
GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,  
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX,  
MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE,  
SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,  
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AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ,  
DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL,  
PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG

DE 10358883 A1 20050721 DE 2003-10358883

20031216

PRIORITY APPLN. INFO.:

DE 2003-10358883

A

20031216

OTHER SOURCE(S): MARPAT 143:102801

AB The invention concerns oxidative hair dyes  
composed of (i) heterocyclical hydrazone derivs.; (ii) CH-active  
compds.; (iii) oxidizing agents. Optionally, direct dyes can be  
added. Thus 3,4-dimethyl-2(3H)-thiazolone-hydrazone hydrochloride

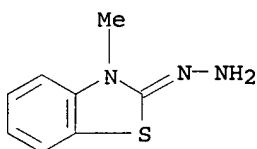
Ross Shipe EIC 1700 Remsen 4B31 571/272-6018

synthesized starting from 4-methyl-3-thiosemicarbazide and chloroacetone. Component A of a hair dye compn. contained (g): decylpolyglucose 50% aq. soln. 4.00; EDTA disodium hydrate 0.20; ethanol 5.00; 3,4-dimethyl-2(3H)-thiazolone-hydrazone hydrochloride 0.43; water to 100. Component B included (g): thiobarbituric acid 0.36; potassium persulfate 0.40.

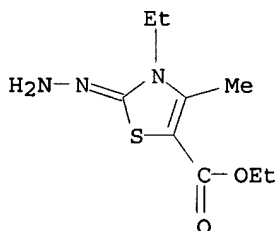
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RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (oxidative hair dyes contg. heterocyclical  
 hydrazone derivs.)

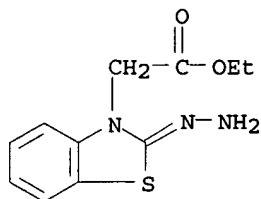
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 CN 2(3H)-Benzothiazolone, 3-methyl-, hydrazone (9CI) (CA INDEX NAME)



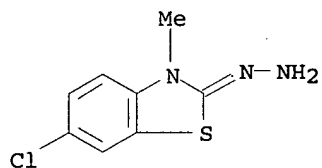
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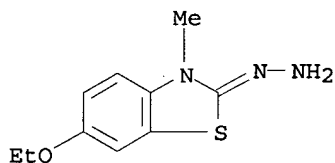
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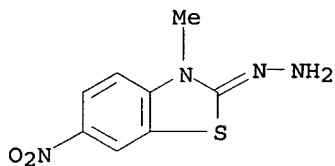
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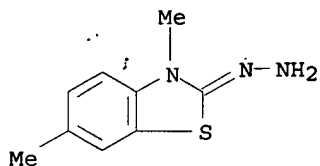
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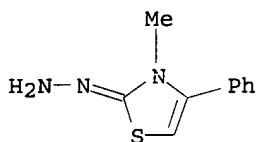
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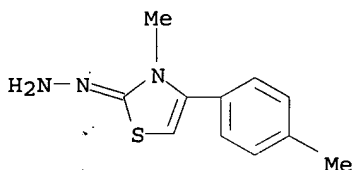
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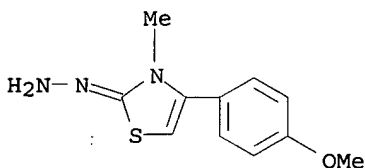
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 CN 2(3H)-Thiazolone, 3-methyl-4-phenyl-, hydrazone (9CI) (CA INDEX NAME)



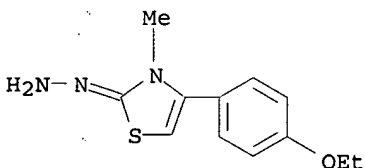
RN 21817-86-7 HCAPLUS  
 CN 2(3H)-Thiazolone, 3-methyl-4-(4-methylphenyl)-, hydrazone (9CI) (CA INDEX NAME)



RN 21817-87-8 HCAPLUS  
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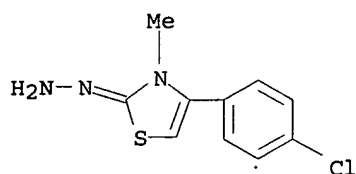


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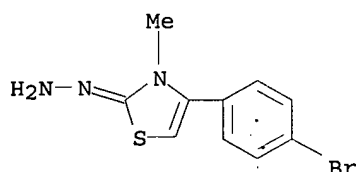
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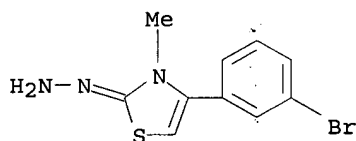
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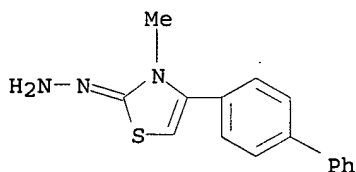
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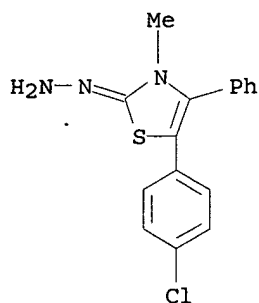
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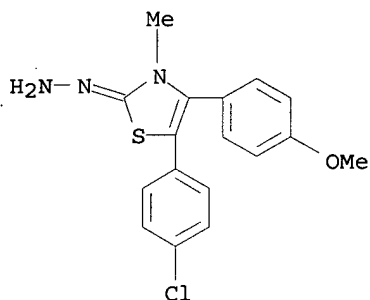


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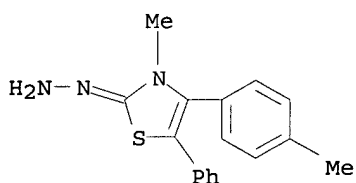
CN 2(3H)-Thiazolone, 5-(4-chlorophenyl)-3-methyl-4-phenyl-, hydrazone (9CI) (CA INDEX NAME)



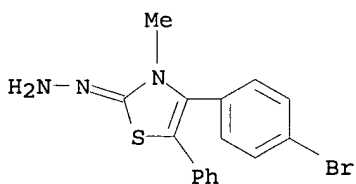
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RN 27893-86-3 HCAPLUS  
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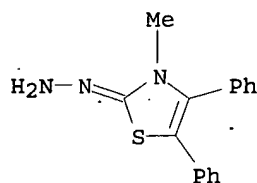


RN 27893-88-5 HCAPLUS  
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 (9CI) (CA INDEX NAME)

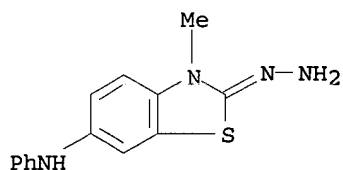


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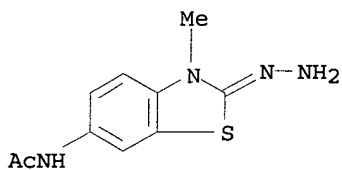




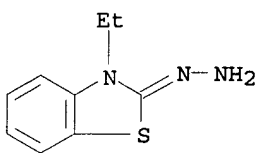
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 CN 2(3H)-Benzothiazolone, 3-methyl-6-(phenylamino)-, hydrazone (9CI)  
 (CA INDEX NAME)



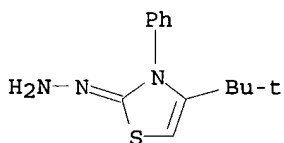
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 CN Acetamide, N-(2-hydrazono-2,3-dihydro-3-methyl-6-benzothiazolyl)-  
 (9CI) (CA INDEX NAME)



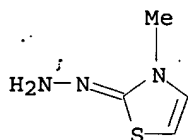
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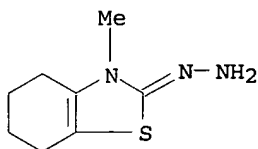
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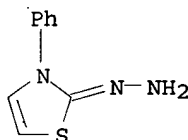
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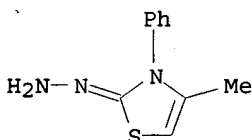
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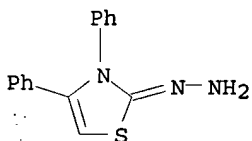
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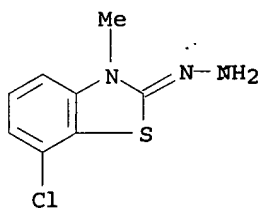
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RN 41339-01-9 HCAPLUS  
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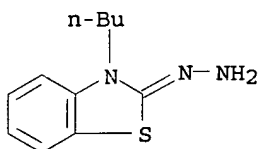


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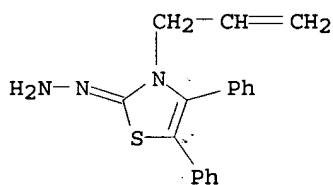
RN 60448-01-3 HCAPLUS

CN 2(3H)-Benzothiazolone, 3-butyl-, hydrazone (9CI) (CA INDEX NAME)



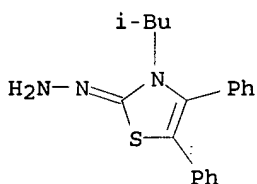
RN 64071-37-0 HCAPLUS

CN 2(3H)-Thiazolone, 4,5-diphenyl-3-(2-propenyl)-, hydrazone (9CI) (CA INDEX NAME)



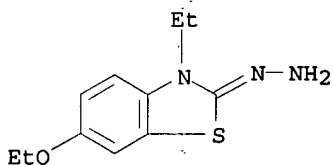
RN 64071-38-1 HCAPLUS

CN 2(3H)-Thiazolone, 3-(2-methylpropyl)-4,5-diphenyl-, hydrazone (9CI) (CA INDEX NAME)



RN 64873-66-1 HCAPLUS

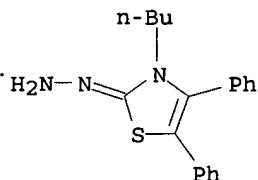
CN 2(3H)-Benzothiazolone, 6-ethoxy-3-ethyl-, hydrazone (9CI) (CA INDEX NAME)



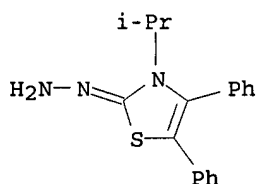
RN 67644-68-2 HCAPLUS

CN 2(3H)-Thiazolone, 3-butyl-4,5-diphenyl-, hydrazone (9CI) (CA INDEX NAME)

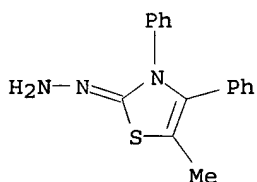
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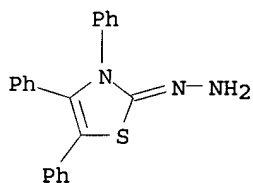
RN 67644-69-3 HCAPLUS  
 CN 2(3H)-Thiazolone, 3-(1-methylethyl)-4,5-diphenyl-, hydrazone (9CI)  
 (CA INDEX NAME)



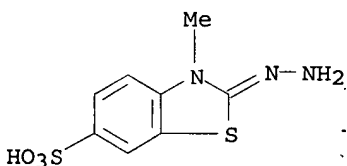
RN 68746-10-1 HCAPLUS  
 CN 2(3H)-Thiazolone, 5-methyl-3,4-diphenyl-, hydrazone (9CI) (CA INDEX  
 NAME)



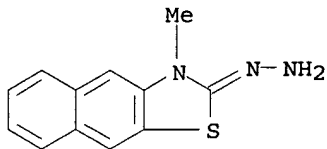
RN 68746-11-2 HCAPLUS  
 CN 2(3H)-Thiazolone, 3,4,5-triphenyl-, hydrazone (9CI) (CA INDEX NAME)



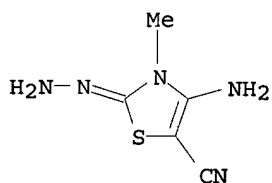
RN 71176-53-9 HCAPLUS  
 CN 6-Benzothiazolesulfonic acid, 2-hydrazono-2,3-dihydro-3-methyl-  
 (9CI) (CA INDEX NAME)



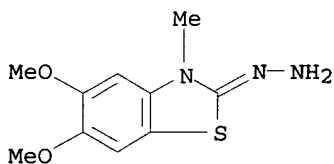
RN 76411-65-9 HCAPLUS  
CN Naphtho[2,3-d]thiazol-2(3H)-one, 3-methyl-, hydrazone (9CI) (CA INDEX NAME)



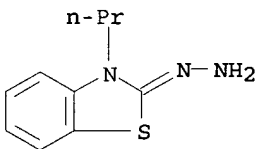
RN 81402-80-4 HCAPLUS  
CN 5-Thiazolecarbonitrile, 4-amino-2-hydrazono-2,3-dihydro-3-methyl- (9CI) (CA INDEX NAME)



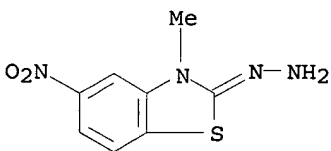
RN 94267-69-3 HCAPLUS  
CN 2(3H)-Benzothiazolone, 5,6-dimethoxy-3-methyl-, hydrazone (9CI) (CA INDEX NAME)



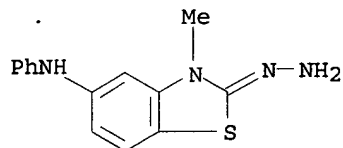
RN 104410-33-5 HCAPLUS  
CN 2(3H)-Benzothiazolone, 3-propyl-, hydrazone (9CI) (CA INDEX NAME)



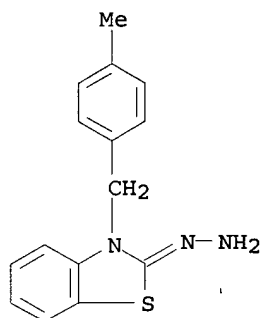
RN 108129-92-6 HCAPLUS  
CN 2(3H)-Benzothiazolone, 3-methyl-5-nitro-, hydrazone (9CI) (CA INDEX NAME)



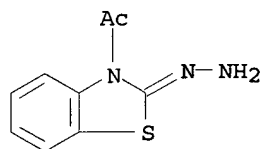
RN 109126-25-2 HCAPLUS  
CN 2(3H)-Benzothiazolone, 3-methyl-5-(phenylamino)-, hydrazone (9CI)  
(CA INDEX NAME)



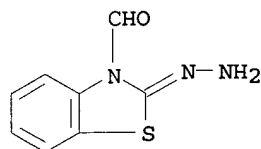
RN 109514-20-7 HCAPLUS  
CN 2(3H)-Benzothiazolone, 3-[(4-methylphenyl)methyl]-, hydrazone (9CI)  
(CA INDEX NAME)



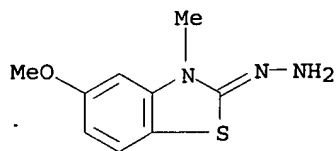
RN 110226-87-4 HCAPLUS  
CN 2(3H)-Benzothiazolone, 3-acetyl-, 2-hydrazone (9CI) (CA INDEX NAME)



RN 110226-89-6 HCAPLUS  
CN 3(2H)-Benzothiazolecarboxaldehyde, 2-hydrazono- (9CI) (CA INDEX NAME)

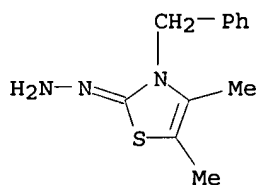


RN 110274-77-6 HCAPLUS  
CN 2(3H)-Benzothiazolone, 5-methoxy-3-methyl-, hydrazone (9CI) (CA INDEX NAME)



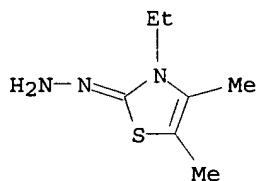
RN 111427-05-5 HCAPLUS

CN 2(3H)-Thiazolone, 4,5-dimethyl-3-(phenylmethyl)-, hydrazone (9CI)  
(CA INDEX NAME)



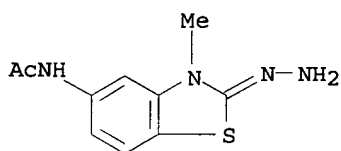
RN 111427-06-6 HCAPLUS

CN 2(3H)-Thiazolone, 3-ethyl-4,5-dimethyl-, hydrazone (9CI) (CA INDEX NAME)



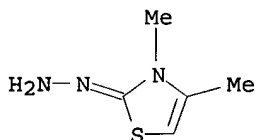
RN 114098-30-5 HCAPLUS

CN Acetamide, N-(2-hydrazono-2,3-dihydro-3-methyl-5-benzothiazolyl)-  
(9CI) (CA INDEX NAME)



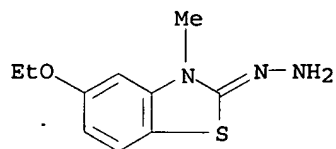
RN 114252-53-8 HCAPLUS

CN 2(3H)-Thiazolone, 3,4-dimethyl-, hydrazone (9CI) (CA INDEX NAME)

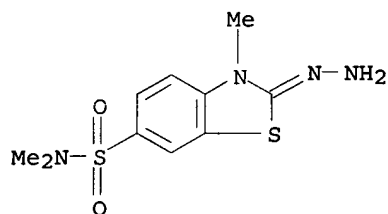


RN 117043-63-7 HCAPLUS

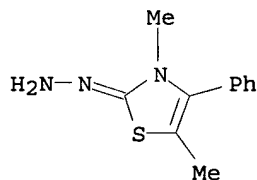
CN 2(3H)-Benzothiazolone, 5-ethoxy-3-methyl-, hydrazone (9CI) (CA INDEX NAME)



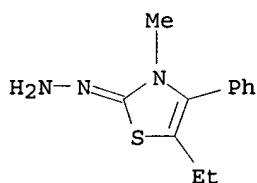
RN 130252-23-2 HCAPLUS  
 CN 6-Benzothiazolesulfonamide, 2-hydrazono-2,3-dihydro-N,N,3-trimethyl-  
 (9CI) (CA INDEX NAME)



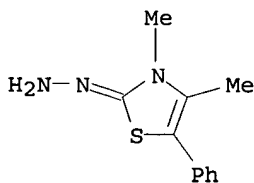
RN 138485-20-8 HCAPLUS  
 CN 2(3H)-Thiazolone, 3,5-dimethyl-4-phenyl-, hydrazone (9CI) (CA INDEX  
 NAME)



RN 138485-21-9 HCAPLUS  
 CN 2(3H)-Thiazolone, 5-ethyl-3-methyl-4-phenyl-, hydrazone (9CI) (CA  
 INDEX NAME)

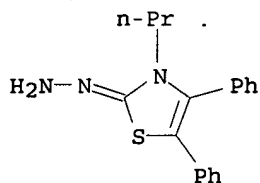


RN 138485-22-0 HCAPLUS  
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 NAME)

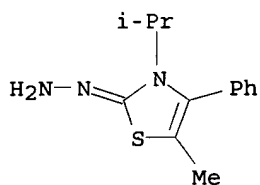




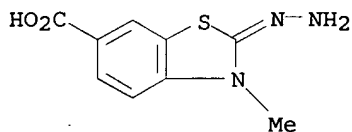
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 CN 2(3H)-Thiazolone, 4,5-diphenyl-3-propyl-, hydrazone (9CI) (CA INDEX NAME)



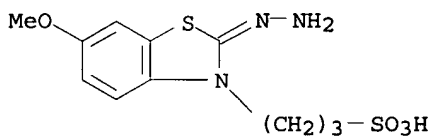
RN 157559-65-4 HCAPLUS  
 CN 2(3H)-Thiazolone, 5-methyl-3-(1-methylethyl)-4-phenyl-, hydrazone (9CI) (CA INDEX NAME)



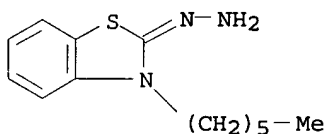
RN 185454-77-7 HCAPLUS  
 CN 6-Benzothiazolecarboxylic acid, 2-hydrazono-2,3-dihydro-3-methyl- (9CI) (CA INDEX NAME)



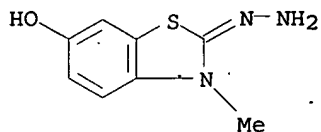
RN 200630-28-0 HCAPLUS  
 CN 3(2H)-Benzothiazolepropanesulfonic acid, 2-hydrazono-6-methoxy- (9CI) (CA INDEX NAME)



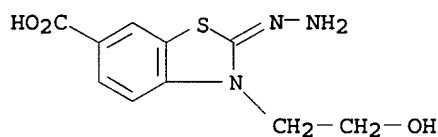
RN 215249-36-8 HCAPLUS  
 CN 2(3H)-Benzothiazolone, 3-hexyl-, hydrazone (9CI) (CA INDEX NAME)



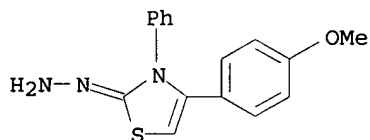
RN 382627-87-4 HCAPLUS  
 CN 2(3H)-Benzothiazolone, 6-hydroxy-3-methyl-, hydrazone (9CI) (CA INDEX NAME)



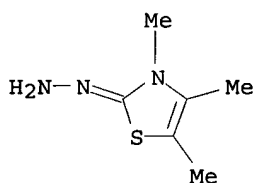
RN 383411-41-4 HCAPLUS  
 CN 6-Benzothiazolecarboxylic acid, 2-hydrazono-2,3-dihydro-3-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)



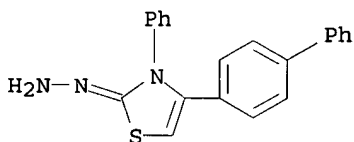
RN 676475-28-8 HCAPLUS  
 CN 2(3H)-Thiazolone, 4-(4-methoxyphenyl)-3-phenyl-, hydrazone (9CI)  
 (CA INDEX NAME)



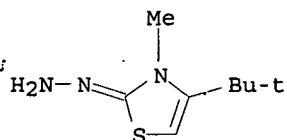
RN 692250-45-6 HCAPLUS  
 CN 2(3H)-Thiazolone, 3,4,5-trimethyl-, hydrazone (9CI) (CA INDEX NAME)



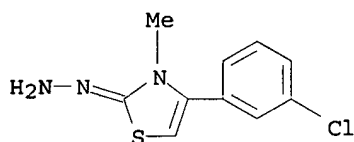
RN 718589-95-8 HCAPLUS  
 CN 2(3H)-Thiazolone, 4-[1,1'-biphenyl]-4-yl-3-phenyl-, hydrazone (9CI)  
 (CA INDEX NAME)



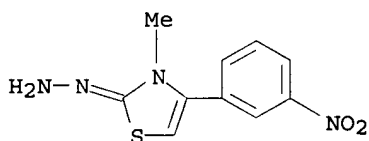
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 CN 2(3H)-Thiazolone, 4-(1,1-dimethylethyl)-3-methyl-, hydrazone (9CI)  
 (CA INDEX NAME)



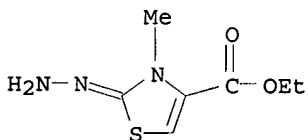
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 CN 2(3H)-Thiazolone, 4-(3-chlorophenyl)-3-methyl-, hydrazone (9CI) (CA INDEX NAME)



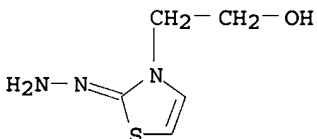
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 CN 2(3H)-Thiazolone, 3-methyl-4-(3-nitrophenyl)-, hydrazone (9CI) (CA INDEX NAME)



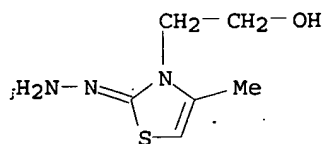
RN 753027-75-7 HCAPLUS  
 CN 4-Thiazolecarboxylic acid, 2-hydrazono-2,3-dihydro-3-methyl-, ethyl ester (9CI) (CA INDEX NAME)



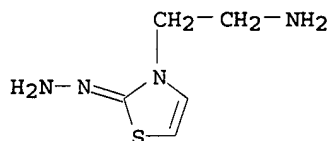
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 CN 2(3H)-Thiazolone, 3-(2-hydroxyethyl)-, hydrazone (9CI) (CA INDEX NAME)



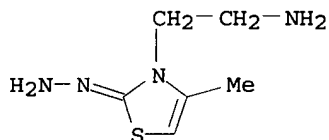
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 CN 2(3H)-Thiazolone, 3-(2-hydroxyethyl)-4-methyl-, hydrazone (9CI) (CA INDEX NAME)



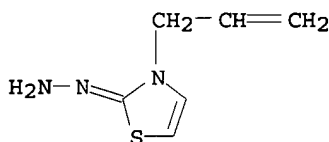
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 CN 2(3H)-Thiazolone, 3-(2-aminoethyl)-, hydrazone (9CI) (CA INDEX NAME)



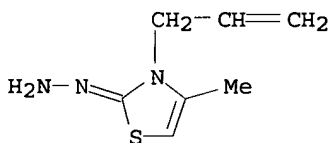
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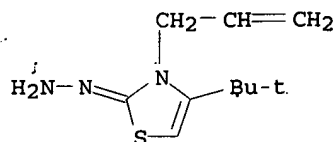
RN 753027-81-5 HCAPLUS  
 CN 2(3H)-Thiazolone, 3-(2-propenyl)-, hydrazone (9CI) (CA INDEX NAME)



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 CN 2(3H)-Thiazolone, 4-methyl-3-(2-propenyl)-, hydrazone (9CI) (CA INDEX NAME)

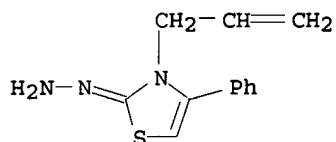


RN 753027-83-7 HCAPLUS  
 CN 2(3H)-Thiazolone, 4-(1,1-dimethylethyl)-3-(2-propenyl)-, hydrazone (9CI) (CA INDEX NAME)



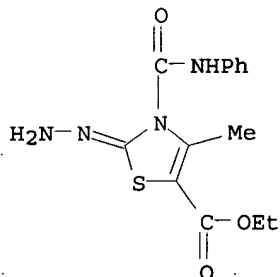
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CN 2(3H)-Thiazolone, 4-phenyl-3-(2-propenyl)-, hydrazone (9CI) (CA INDEX NAME)



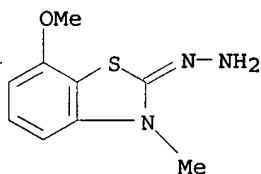
RN 753027-85-9 HCAPLUS

CN 5-Thiazolecarboxylic acid, 2-hydrazono-2,3-dihydro-4-methyl-3-[(phenylamino)carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



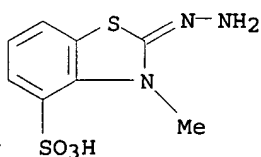
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CN 2(3H)-Benzothiazolone, 7-methoxy-3-methyl-, hydrazone (9CI) (CA INDEX NAME)

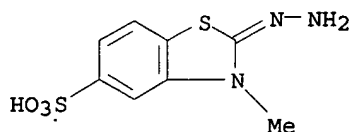


RN 753027-87-1 HCAPLUS

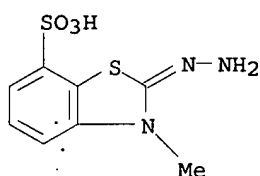
CN 4-Benzothiazolesulfonic acid, 2-hydrazono-2,3-dihydro-3-methyl- (9CI) (CA INDEX NAME)



RN 753027-88-2 HCAPLUS

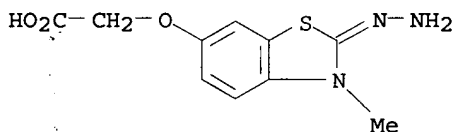
CN 5-Benzothiazolesulfonic acid, 2-hydrazono-2,3-dihydro-3-methyl-  
(9CI) (CA INDEX NAME)

RN 753027-89-3 HCAPLUS

CN 7-Benzothiazolesulfonic acid, 2-hydrazono-2,3-dihydro-3-methyl-  
(9CI) (CA INDEX NAME)

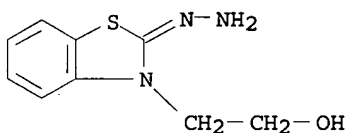
RN 753027-90-6 HCAPLUS

CN Acetic acid, [(2-hydrazono-2,3-dihydro-3-methyl-6-benzothiazolyl)oxy]- (9CI) (CA INDEX NAME)



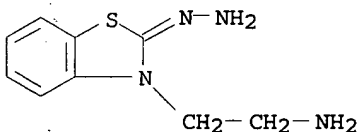
RN 753027-91-7 HCAPLUS

CN 2(3H)-Benzothiazolone, 3-(2-hydroxyethyl)-, hydrazone (9CI) (CA INDEX NAME)



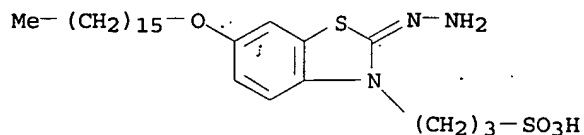
RN 753027-92-8 HCAPLUS

CN 2(3H)-Benzothiazolone, 3-(2-aminoethyl)-, hydrazone (9CI) (CA INDEX NAME)



RN 753027-94-0 HCAPLUS

CN 3(2H)-Benzothiazolepropanesulfonic acid, 6-(hexadecyloxy)-2-hydrazono- (9CI) (CA INDEX NAME)



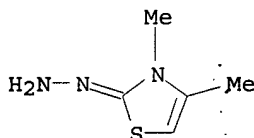
IT 68746-04-3P

RL: COS (Cosmetic use); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(oxidative hair dyes contg. heterocyclical hydrazone derivs.)

RN 68746-04-3 HCAPLUS

CN 2(3H)-Thiazolone, 3,4-dimethyl-, hydrazone, hydrochloride (9CI) (CA INDEX NAME)



●x HCl

IC ICM A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

Section cross-reference(s): 28

ST oxidative hair dye heterocyclical hydrazone deriv

IT Azo dyes

Dyes

(direct; oxidative hair dyes contg. heterocyclical hydrazone derivs.)

IT Hair preparations

(dyes, oxidative; oxidative hair dyes contg. heterocyclical hydrazone derivs.)

IT Quinones

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(dyes; oxidative hair dyes contg. heterocyclical hydrazone derivs.)

IT Hydrazones

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(heterocyclical, derivs.; oxidative hair dyes contg. heterocyclical hydrazone derivs.)

IT Dyes

(nitro; oxidative hair dyes contg. heterocyclical hydrazone derivs.)

IT Oxidizing agents

pH

(oxidative hair dyes contg. heterocyclical hydrazone derivs.)

IT 519-73-3D, Triphenyl methane, derivs.

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(dyes; oxidative hair dyes contg. heterocyclical hydrazone derivs.)

IT 59-48-3 -67-52-7, Barbituric acid 105-34-0, Cyanoacetic acid methyl ester 105-56-6, Cyanoacetic acid ethyl ester 107-91-5, 2-Cyanoacetamide 109-77-3, Malonic acid dinitrile 141-84-4,

2-Thioxo-4-thiazolidinone 372-09-8, Cyanoacetic acid 504-17-6,  
Thiobarbituric acid 608-08-2, 3-Indoxylacetate 939-83-3  
1128-67-2 3158-63-2, 1,3-Dimethylthiobarbituric acid  
3316-70-9 5718-83-2, 4-Oxo-2-thioxo-3-thiazolidinyl acetic  
acid 7169-34-8, 3(2H)-Benzofuranone 7722-84-1, Hydrogen  
peroxide, biological studies 7727-21-1, Potassium persulfate  
15315-48-7 20065-04-7 20065-05-8  
20065-06-9 20125-57-9 21817-85-6  
21817-86-7 21817-87-8 21817-88-9  
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21882-34-8 27074-03-9 27893-83-0  
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33167-57-6 33167-60-1 41339-01-9  
51769-42-7 59997-51-2, Pivaloylacetonitrile  
60448-01-3 64071-37-0 64071-38-1  
64873-66-1 67644-68-2 67644-69-3  
68746-10-1 68746-11-2 71176-53-9  
76411-65-9 81402-80-4 94267-69-3  
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753027-92-8 753027-94-0

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(oxidative hair dyes contg. heterocyclical  
hydrazone derivs.)

IT 68746-04-3P

RL: COS (Cosmetic use); PRP (Properties); SPN (Synthetic  
preparation); BIOL (Biological study); PREP (Preparation); USES  
(Uses)  
(oxidative hair dyes contg. heterocyclical  
hydrazone derivs.)

IT 753011-47-1P

RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation);  
PREP (Preparation); RACT (Reactant or reagent)  
(oxidative hair dyes contg. heterocyclical  
hydrazone derivs.)

IT 78-95-5, Chloroacetone 6610-29-3, 4-Methyl-3-thiosemicarbazide

RL: RCT (Reactant); RACT (Reactant or reagent)  
(oxidative hair dyes contg. heterocyclical  
hydrazone derivs.)

REFERENCE COUNT:

4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR  
THIS RECORD. ALL CITATIONS AVAILABLE IN  
THE RE FORMAT

L29 ANSWER 3 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:755999 HCAPLUS

DOCUMENT NUMBER: 141:248369

TITLE: Oxidative hair dyes with  
bleaching agent containing hydrazone compounds  
as developing agents

INVENTOR(S): Pasquier, Cesile; Buclin, Veronique; Kiener,

Ross Shipe EIC 1700 Remsen 4B31 571/272-6018



PATENT ASSIGNEE(S): Caroline; Roulin, Anita; Braun, Hans-Juergen  
 SOURCE: Wella Ag, Germany  
 Ger. Offen., 15 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10309523	A1	20040916	DE 2003-10309523	20030305
WO 2004078153	A1	20040916	WO 2004-EP961	20040203
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1599179	A1	20051130	EP 2004-707512	20040203
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2004008011	A	20060214	BR 2004-8011	20040203
US 2006010616	A1	20060119	US 2005-529978	20050324
PRIORITY APPLN. INFO.: DE 2003-10309523 A WO 2004-EP961 W				

OTHER SOURCE(S): MARPAT 141:248369

AB The invention concerns hair preps. for simultaneous bleaching and dyeing; the compns. include as developing agents thiazole, oxazole, imidazole, and benzoxazole derivs. of hydrazone; further ingredients are coupling dyes and a persulfate as oxidn./bleaching agent. Thus 3,4-dimethyl-2(3H)-thiazolone-1-(methylethylidene)-hydrazone was prepd. by reacting 21 g 4-methyl-3-thiosemicarbazide with 20.4 g chloroacetone in acetone at b.p. under reflux. The product was recrystd. from acetone; 23 orange powder was obtained. 3.5 G of the 3,4-dimethyl-2(3H)-thiazolone-1-(methylethylidene)-hydrazone was treated with 60 mL 6 M HCl at 50°C for 30 min; the reaction product was concd. and recrystd. from ethanol to yield 2 g pink 3,4-dimethyl-2(3H)-thiazolone-hydrazone hydrochloride. A hair dye compn. included (g): component A1:

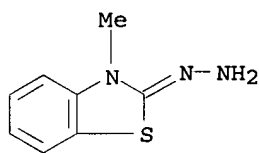
Plantaren 2000 (50% soln.) 4.00; EDTA disodium salt 0.20; ethanol 5.00; 3,4-dimethyl-2(3H)-thiazolone-hydrazone hydrochloride hydrate 0.58; water to 100; component A2: 1,3-diaminobenzene 0.27; potassium persulfate 0.67.

IT 1128-67-2 3161-77-1 3316-70-9  
 15315-48-7 20065-04-7 20065-05-8  
 20065-06-9 20125-57-9 21817-85-6  
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 753027-95-1 753027-96-2

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (oxidative hair dyes with bleaching agent  
 contg. hydrazone compds. as developing agents)

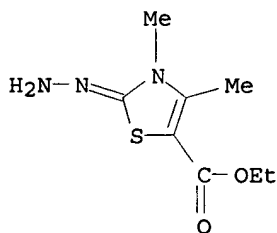
RN 1128-67-2 HCAPLUS

CN 2(3H)-Benzothiazolone, 3-methyl-, hydrazone (9CI) (CA INDEX NAME)



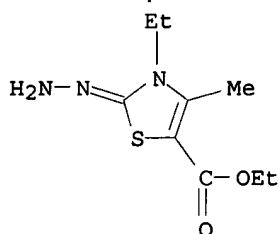
RN 3161-77-1 HCAPLUS

CN 5-Thiazolecarboxylic acid, 2-hydrazono-2,3-dihydro-3,4-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



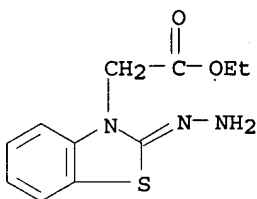
RN 3316-70-9 HCAPLUS

CN 5-Thiazolecarboxylic acid, 3-ethyl-2-hydrazono-2,3-dihydro-4-methyl-, ethyl ester (9CI) (CA INDEX NAME)



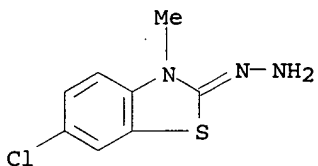
RN 15315-48-7 HCAPLUS

CN 3(2H)-Benzothiazoleacetic acid, 2-hydrazono-, ethyl ester (9CI) (CA INDEX NAME)



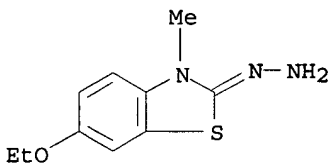
RN 20065-04-7 HCAPLUS

CN 2(3H)-Benzothiazolone, 6-chloro-3-methyl-, hydrazone (9CI) (CA INDEX NAME)



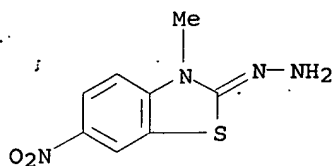
RN 20065-05-8 HCAPLUS

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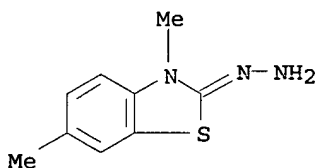


RN 20065-06-9 HCAPLUS

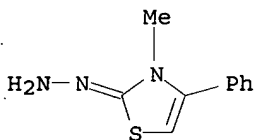
CN 2(3H)-Benzothiazolone, 3-methyl-6-nitro-, hydrazone (9CI) (CA INDEX NAME)



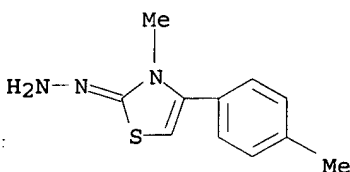
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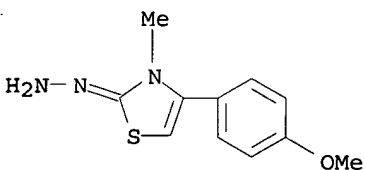
RN 21817-85-6 HCAPLUS  
 CN 2(3H)-Thiazolone, 3-methyl-4-phenyl-, hydrazone (9CI) (CA INDEX NAME)



RN 21817-86-7 HCAPLUS  
 CN 2(3H)-Thiazolone, 3-methyl-4-(4-methylphenyl)-, hydrazone (9CI) (CA INDEX NAME)

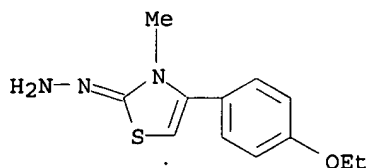


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 CN 2(3H)-Thiazolone, 4-(4-methoxyphenyl)-3-methyl-, hydrazone (9CI) (CA INDEX NAME)



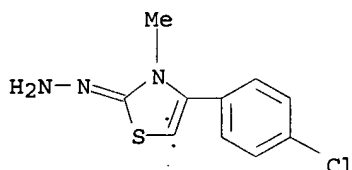
RN 21817-88-9 HCAPLUS

CN 2(3H)-Thiazolone, 4-(4-ethoxyphenyl)-3-methyl-, hydrazone (9CI) (CA  
INDEX NAME)



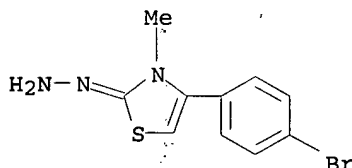
RN 21817-89-0 HCAPLUS

CN 2(3H)-Thiazolone, 4-(4-chlorophenyl)-3-methyl-, hydrazone (9CI) (CA  
INDEX NAME)



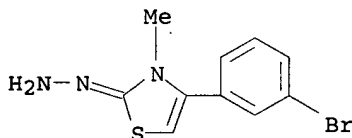
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CN 2(3H)-Thiazolone, 4-(4-bromophenyl)-3-methyl-, hydrazone (9CI) (CA  
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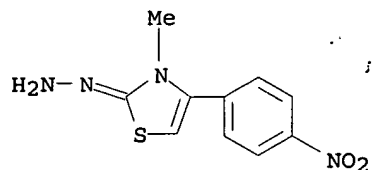
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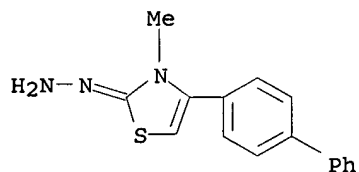


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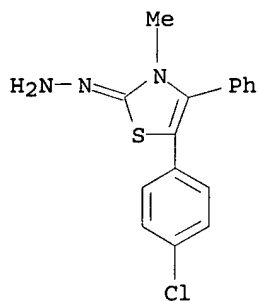
CN 2(3H)-Thiazolone, 3-methyl-4-(4-nitrophenyl)-, hydrazone (9CI) (CA  
INDEX NAME)



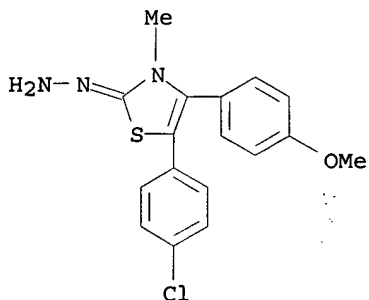
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 (CA INDEX NAME)



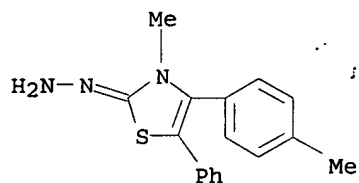
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 (9CI) (CA INDEX NAME)



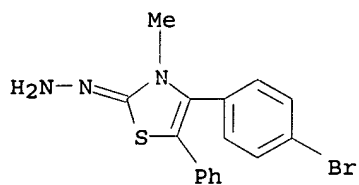
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 hydrazone (9CI) (CA INDEX NAME)



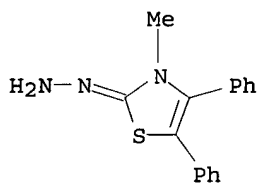
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 CN 2(3H)-Thiazolone, 3-methyl-4-(4-methylphenyl)-5-phenyl-, hydrazone  
 (9CI) (CA INDEX NAME)



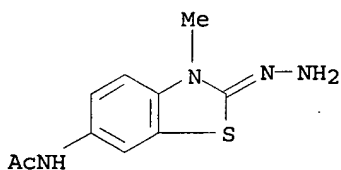
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 CN 2(3H)-Thiazolone, 4-(4-bromophenyl)-3-methyl-5-phenyl-, hydrazone (9CI) (CA INDEX NAME)



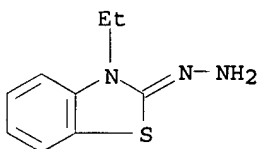
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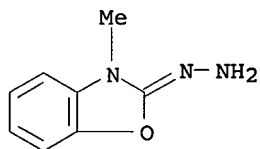
RN 28218-90-8 HCAPLUS  
 CN Acetamide, N-(2-hydrazono-2,3-dihydro-3-methyl-6-benzothiazolyl)- (9CI) (CA INDEX NAME)



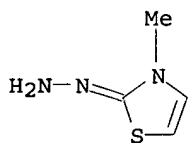
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 CN 2(3H)-Benzothiazolone, 3-ethyl-, hydrazone (9CI) (CA INDEX NAME)



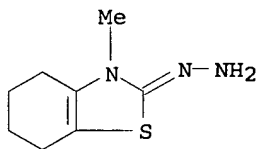
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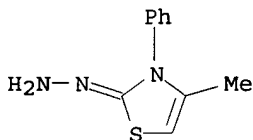
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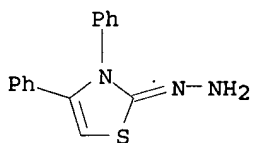
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 CN 2(3H)-Benzothiazolone, 4,5,6,7-tetrahydro-3-methyl-, hydrazone (9CI)  
 (CA INDEX NAME)



RN 33167-60-1 HCAPLUS  
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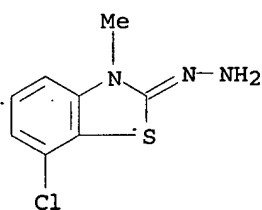


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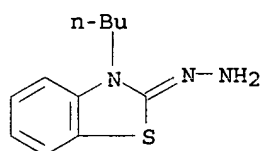


RN 51769-42-7 HCAPLUS  
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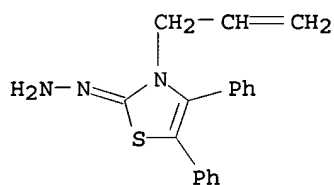




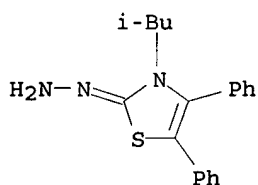
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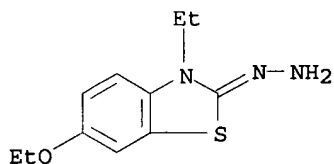
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 CN 2(3H)-Thiazolone, 4,5-diphenyl-3-(2-propenyl)-, hydrazone (9CI) (CA INDEX NAME)



RN 64071-38-1 HCAPLUS  
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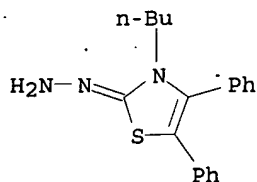


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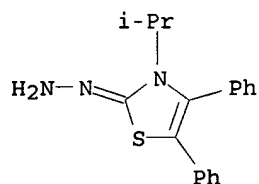


RN 67644-68-2 HCAPLUS  
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NAME)

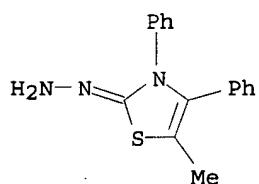


RN 67644-69-3 HCAPLUS

CN 2(3H)-Thiazolone, 3-(1-methylethyl)-4,5-diphenyl-, hydrazone (9CI)  
(CA INDEX NAME)

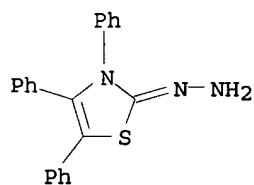
RN 68746-10-1 HCAPLUS

CN 2(3H)-Thiazolone, 5-methyl-3,4-diphenyl-, hydrazone (9CI) (CA INDEX NAME)

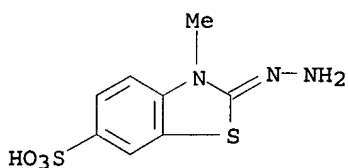


RN 68746-11-2 HCAPLUS

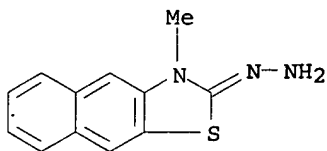
CN 2(3H)-Thiazolone, 3,4,5-triphenyl-, hydrazone (9CI) (CA INDEX NAME)



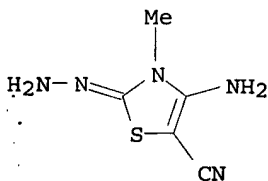
RN 71176-53-9 HCAPLUS

CN 6-Benzothiazolesulfonic acid, 2-hydrazono-2,3-dihydro-3-methyl-  
(9CI) (CA INDEX NAME)

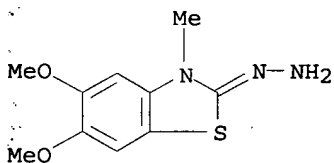
RN 76411-65-9 HCAPLUS  
CN Naphtho[2,3-d]thiazol-2(3H)-one, 3-methyl-, hydrazone (9CI) (CA INDEX NAME)



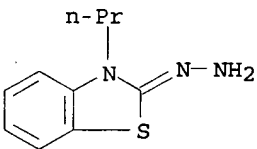
RN 81402-80-4 HCAPLUS  
CN 5-Thiazolecarbonitrile, 4-amino-2-hydrazono-2,3-dihydro-3-methyl- (9CI) (CA INDEX NAME)



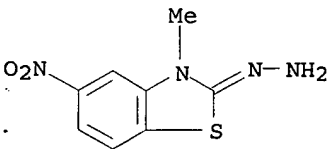
RN 94267-69-3 HCAPLUS  
CN 2(3H)-Benzothiazolone, 5,6-dimethoxy-3-methyl-, hydrazone (9CI) (CA INDEX NAME)



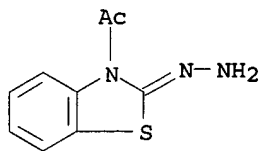
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CN 2(3H)-Benzothiazolone, 3-propyl-, hydrazone (9CI) (CA INDEX NAME)



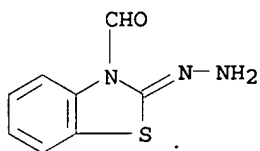
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CN 2(3H)-Benzothiazolone, 3-methyl-5-nitro-, hydrazone (9CI) (CA INDEX NAME)



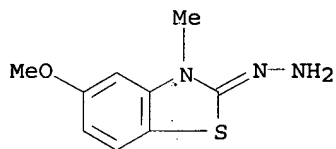
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 CN 2(3H)-Benzothiazolone, 3-acetyl-, 2-hydrazone (9CI) (CA INDEX NAME)



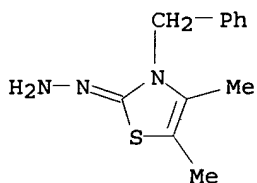
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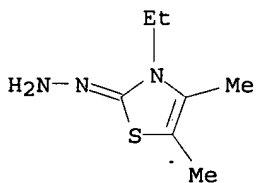
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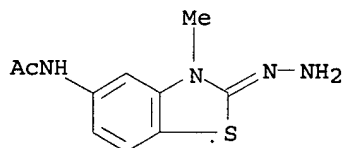
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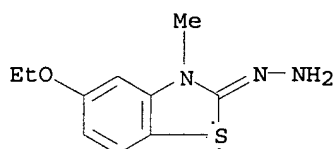
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 CN 2(3H)-Thiazolone, 3-ethyl-4,5-dimethyl-, hydrazone (9CI) (CA INDEX NAME)



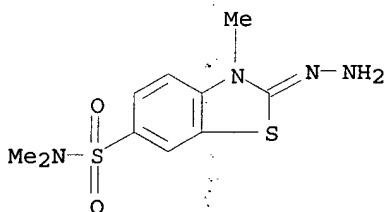
RN 114098-30-5 HCAPLUS

CN Acetamide, N-(2-hydrazono-2,3-dihydro-3-methyl-5-benzothiazolyl)-  
(9CI) (CA INDEX NAME)

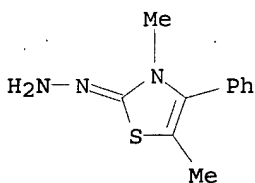
RN 117043-63-7 HCAPLUS

CN 2(3H)-Benzothiazolone, 5-ethoxy-3-methyl-, hydrazone (9CI) (CA  
INDEX NAME)

RN 130252-23-2 HCAPLUS

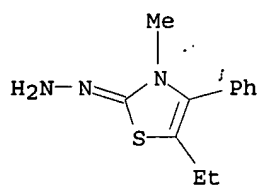
CN 6-Benzothiazolesulfonamide, 2-hydrazono-2,3-dihydro-N,N,3-trimethyl-  
(9CI) (CA INDEX NAME)

RN 138485-20-8 HCAPLUS

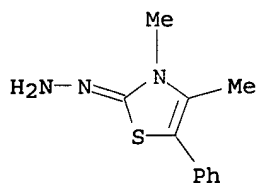
CN 2(3H)-Thiazolone, 3,5-dimethyl-4-phenyl-, hydrazone (9CI) (CA INDEX  
NAME)

RN 138485-21-9 HCAPLUS

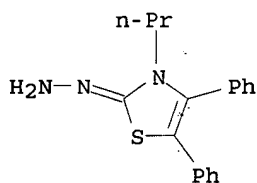
CN 2(3H)-Thiazolone, 5-ethyl-3-methyl-4-phenyl-, hydrazone (9CI) (CA  
INDEX NAME)



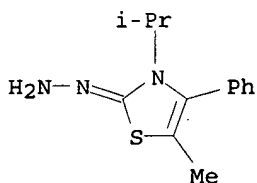
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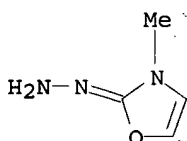
RN 139262-46-7 HCAPLUS  
 CN 2(3H)-Thiazolone, 4,5-diphenyl-3-propyl-, hydrazone (9CI) (CA INDEX NAME)



RN 157559-65-4 HCAPLUS  
 CN 2(3H)-Thiazolone, 5-methyl-3-(1-methylethyl)-4-phenyl-, hydrazone (9CI) (CA INDEX NAME)

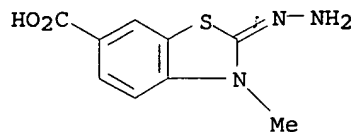


RN 178450-81-2 HCAPLUS  
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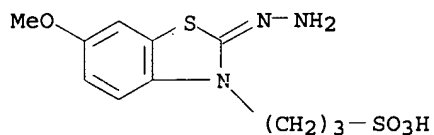


RN 185454-77-7 HCAPLUS  
 CN 6-Benzothiazolecarboxylic acid, 2-hydrazono-2,3-dihydro-3-methyl-

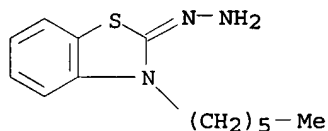
(9CI) (CA INDEX NAME)



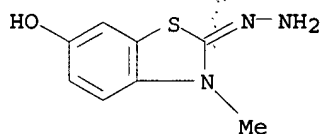
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 CN 3(2H)-Benzothiazolepropanesulfonic acid, 2-hydrazono-6-methoxy-  
 (9CI) (CA INDEX NAME)



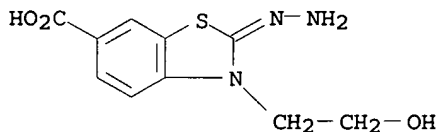
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 CN 2(3H)-Benzothiazolone, 3-hexyl-, hydrazone (9CI) (CA INDEX NAME)



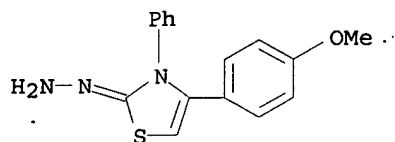
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 CN 2(3H)-Benzothiazolone, 6-hydroxy-3-methyl-, hydrazone (9CI) (CA INDEX NAME)



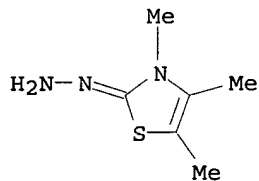
RN 383411-41-4 HCAPLUS  
 CN 6-Benzothiazolecarboxylic acid, 2-hydrazono-2,3-dihydro-3-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)



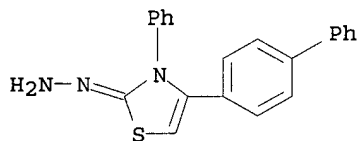
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 CN 2(3H)-Thiazolone, 4-(4-methoxyphenyl)-3-phenyl-, hydrazone (9CI)  
 (CA INDEX NAME)



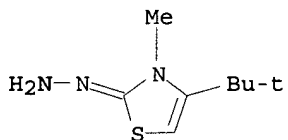
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 CN 2(3H)-Thiazolone, 3,4,5-trimethyl-, hydrazone (9CI) (CA INDEX NAME)



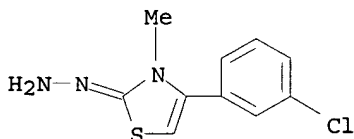
RN 718589-95-8 HCAPLUS  
 CN 2(3H)-Thiazolone, 4-[1,1'-biphenyl]-4-yl-3-phenyl-, hydrazone (9CI)  
 (CA INDEX NAME)



RN 753027-71-3 HCAPLUS  
 CN 2(3H)-Thiazolone, 4-(1,1-dimethylethyl)-3-methyl-, hydrazone (9CI)  
 (CA INDEX NAME)

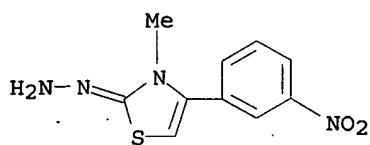


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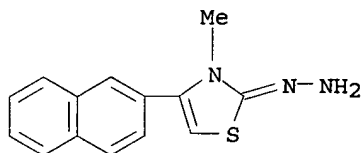


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 CN 2(3H)-Thiazolone, 3-methyl-4-(3-nitrophenyl)-, hydrazone (9CI) (CA INDEX NAME)

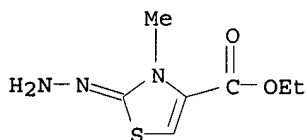




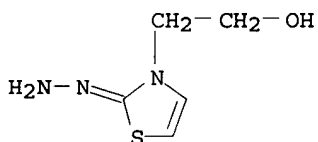
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 CN 2(3H)-Thiazolone, 3-methyl-4-(2-naphthalenyl)-, hydrazone (9CI) (CA INDEX NAME)



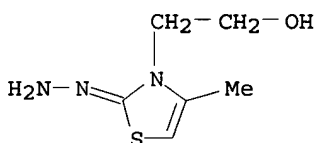
RN 753027-75-7 HCAPLUS  
 CN 4-Thiazolecarboxylic acid, 2-hydrazono-2,3-dihydro-3-methyl-, ethyl ester (9CI) (CA INDEX NAME)



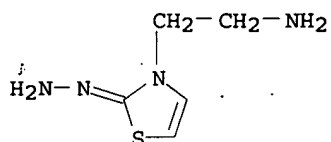
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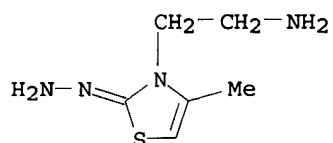
RN 753027-77-9 HCAPLUS  
 CN 2(3H)-Thiazolone, 3-(2-hydroxyethyl)-4-methyl-, hydrazone (9CI) (CA INDEX NAME)



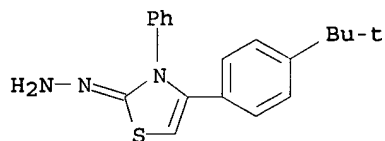
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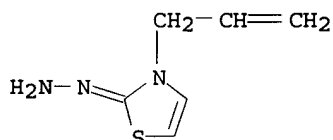
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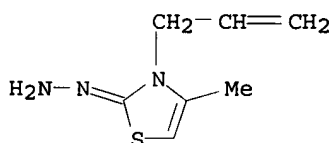
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 CN 2(3H)-Thiazolone, 4-[4-(1,1-dimethylethyl)phenyl]-3-phenyl-, hydrazone (9CI) (CA INDEX NAME)



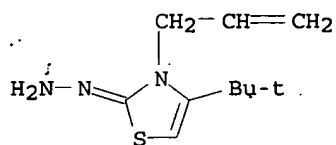
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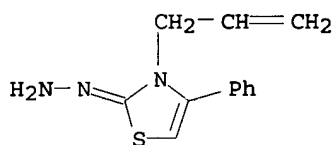
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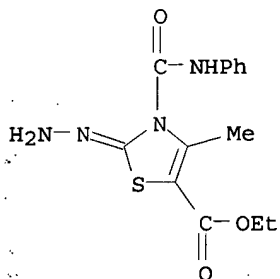
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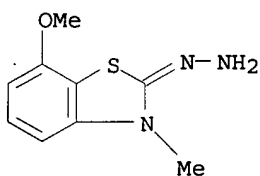
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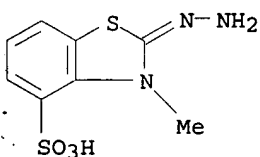
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 CN 5-Thiazolecarboxylic acid, 2-hydrazono-2,3-dihydro-4-methyl-3-[(phenylamino)carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



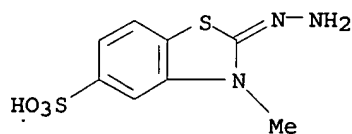
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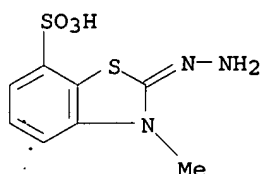
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 CN 4-Benzothiazolesulfonic acid, 2-hydrazono-2,3-dihydro-3-methyl- (9CI) (CA INDEX NAME)



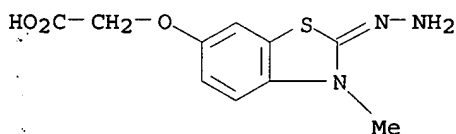
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 (9CI) (CA INDEX NAME)



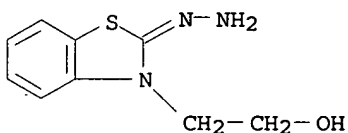
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 CN 7-Benzothiazolesulfonic acid, 2-hydrazono-2,3-dihydro-3-methyl-  
 (9CI) (CA INDEX NAME)



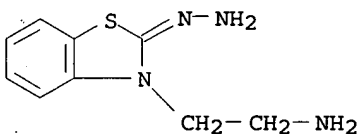
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 CN Acetic acid, [(2-hydrazono-2,3-dihydro-3-methyl-6-benzothiazolyl)oxy]- (9CI) (CA INDEX NAME)



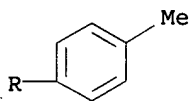
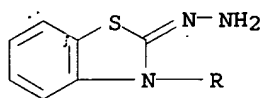
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 CN 2(3H)-Benzothiazolone, 3-(2-hydroxyethyl)-, hydrazone (9CI) (CA INDEX NAME)



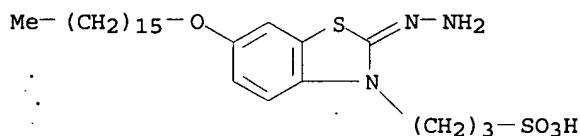
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 CN 2(3H)-Benzothiazolone, 3-(2-aminoethyl)-, hydrazone (9CI) (CA INDEX NAME)



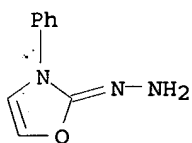
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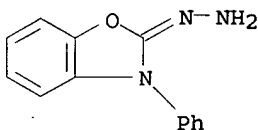
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 CN 3(2H)-Benzothiazolepropanesulfonic acid, 6-(hexadecyloxy)-2-hydrazono- (9CI) (CA INDEX NAME)



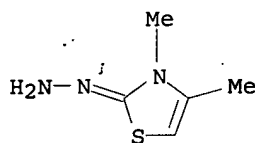
RN 753027-95-1 HCAPLUS  
 CN 2(3H)-Oxazolone, 3-phenyl-, hydrazone (9CI) (CA INDEX NAME)



RN 753027-96-2 HCAPLUS  
 CN 2(3H)-Benzoxazolone, 3-phenyl-, hydrazone (9CI) (CA INDEX NAME)

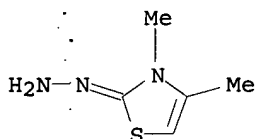


IT 114252-54-9P  
 RL: COS (Cosmetic use); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (oxidative hair dyes with bleaching agent contg. hydrazone compds. as developing agents)  
 RN 114252-54-9 HCAPLUS  
 CN 2(3H)-Thiazolone, 3,4-dimethyl-, hydrazone, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

IT 114252-53-8P  
 RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation);  
 PREP (Preparation); RACT (Reactant or reagent)  
 (oxidative hair dyes with bleaching agent  
 contg. hydrazone compds. as developing agents)  
 RN 114252-53-8 HCAPLUS  
 CN 2(3H)-Thiazolone, 3,4-dimethyl-, hydrazone (9CI) (CA INDEX NAME)



IC ICM A61K007-13  
 ICS D06P001-382  
 CC 62-3 (Essential Oils and Cosmetics)  
 Section cross-reference(s): 28  
 ST hydrazone thiazole oxazole benzoxazole oxidative hair  
 dye persulfate bleaching  
 IT Hair preparations  
 (bleaches; oxidative hair dyes with bleaching  
 agent contg. hydrazone compds. as developing agents)  
 IT Dyes  
 (direct; oxidative hair dyes with bleaching  
 agent contg. hydrazone compds. as developing agents)  
 IT Hair preparations  
 (dyes, oxidative; oxidative hair dyes  
 with bleaching agent contg. hydrazone compds. as developing  
 agents)  
 IT Nitro compounds  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (dyes; oxidative hair dyes with  
 bleaching agent contg. hydrazone compds. as developing agents)  
 IT Anthraquinone dyes  
 Azo dyes  
 Oxidizing agents  
 pH  
 (oxidative hair dyes with bleaching agent  
 contg. hydrazone compds. as developing agents)  
 IT Hydrazones  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (oxidative hair dyes with bleaching agent  
 contg. hydrazone compds. as developing agents)  
 IT 2216-49-1D, Triphenylmethyl, derivs.  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (dyes; oxidative hair dyes with  
 bleaching agent contg. hydrazone compds. as developing agents)  
 IT 83-56-7, 1,5-Dihydroxynaphthalene 89-25-8, 3-Methyl-1-phenyl-5-  
 pyrazolone 89-83-8, 5-Methyl-2-(1-methylethyl)phenol 90-15-3,

1-Naphthol 91-56-5, 2,3-Indolindione 91-68-9,  
3-Diethylaminophenol 92-44-4, 2,3-Dihydroxynaphthalene 95-16-9D,  
Benzothiazole, derivs. with hydrazone 95-88-5,  
1-Chloro-2,4-dihydroxybenzene 99-07-0, 3-Dimethylaminophenol  
108-45-2, 1,3-Diaminobenzene, biological studies 108-46-3,  
1,3-Dihydroxybenzene, biological studies 137-19-9,  
1,5-Dichloro-2,4-dihydroxybenzene 141-86-6, 2,6-Diaminopyridine  
273-53-0D, Benzoxazole, derivs. with hydrazone 288-42-6D, Oxazole,  
derivs. with hydrazone 288-47-1D, Thiazole, derivs. with hydrazone  
533-31-3, 3,4-Methylenedioxyphenol 575-38-2, 1,7-  
Dihydroxynaphthalene 582-17-2, 2,7-Dihydroxynaphthalene  
591-27-5, 3-Aminophenol 608-25-3, 1,3-Dihydroxy-2-methylbenzene  
619-05-6, 3,4-Diaminobenzoic acid 770-25-2, 3-[(2-  
Hydroxyethyl)amino]phenol 1128-67-2 1687-53-2,  
5-Amino-2-methoxyphenol 1953-54-4, 5-Hydroxyindole 2380-84-9,  
7-Hydroxyindole 2380-86-1, 6-Hydroxyindole 2380-94-1,  
4-Hydroxyindole 2835-95-2, 5-Amino-2-methylphenol 3131-52-0,  
5,6-Dihydroxyindole 3161-77-1 3316-70-9  
5349-76-8, 2,4-Diamino-1-methoxy-5-methylbenzene 5697-02-9,  
2-Methyl 1-naphthol acetate 6201-65-6, 2-Chloro-1,3-  
dihydroxybenzene 6265-21-0, 3-[(2-Hydroxyethyl)amino]aniline  
6941-70-4, 6-Bromo-1-hydroxy-3,4-methylenedioxybenzene 7228-00-4,  
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7722-84-1, Hydrogen peroxide, biological studies 7727-21-1,  
Potassium persulfate 7727-54-0, Ammonium persulfate 7732-18-5,  
Water, biological studies 7775-27-1, Sodium persulfate  
14268-66-7, 3,4-Methylenedioxyaniline 15315-48-7  
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3,4-Dihydro-6-hydroxy-1,4(2H)-benzoxazine 26455-21-0,  
N-(3-Dimethylaminophenyl)urea 27893-83-0  
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5,6-Dihydroxyindoline 33167-60-1 39489-79-7,  
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70643-19-5, 2,4-Diamino-1-(2-hydroxyethoxy)benzene 71077-37-7,  
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71500-41-9, 4-Amino-2-di[(2-hydroxyethyl)amino]-1-ethoxybenzene  
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1,3-Diamino-4-(2,3-dihydroxypropoxy)benzene 76045-64-2,  
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2,6-Dihydroxy-3,4-dimethylpyridine 84540-48-7,  
2,4-Diaminophenoxyacetic acid 84540-50-1, 3-Amino-2-chloro-6-  
methylphenol 85679-78-3, 3,5-Diamino-2,6-dimethoxypyridine  
90817-34-8, 3-Amino-6-methoxy-2-(methylamino)pyridine 90840-23-6  
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1-(2-Aminoethoxy)-2,4-diaminobenzene 104752-51-4,  
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110102-86-8, 5-Amino-4-chloro-2-methylphenol 110226-87-4  
110226-89-6 110274-77-6 111427-05-5  
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168092-23-7, Di(2,4-diaminophenoxy)methane 178450-81-2  
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5-Amino-2-ethylphenol 215249-36-8 307493-94-3,  
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RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(oxidative hair dyes with bleaching agent  
contg. hydrazone compds. as developing agents)

IT 753028-47-6 753028-48-7 753028-49-8

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(oxidative hair dyes with bleaching agent  
contg. hydrazone compds. as developing agents)

IT 114252-54-9P

RL: COS (Cosmetic use); PRP (Properties); SPN (Synthetic  
preparation); BIOL (Biological study); PREP (Preparation); USES  
(Uses)

(oxidative hair dyes with bleaching agent  
contg. hydrazone compds. as developing agents)

IT 114252-53-8P

RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation);  
PREP (Preparation); RACT (Reactant or reagent)

(oxidative hair dyes with bleaching agent  
contg. hydrazone compds. as developing agents)

L29 ANSWER 4 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:755998 HCAPLUS

DOCUMENT NUMBER: 141:265567

TITLE: Oxidative hair dyes with  
bleaching agent containing hydrazone compounds  
as developing agents

INVENTOR(S): Pasquier, Cecile; Kiener, Caroline; Braun,  
Hans-Juergen

Ross Shipe EIC 1700 Remsen 4B31 571/272-6018



PATENT ASSIGNEE(S): Wella Ag, Germany  
 SOURCE: Ger. Offen., 15 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10309522	A1	20040916	DE 2003-10309522	20030305
WO 2004078152	A1	20040916	WO 2004-EP816	20040130
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG BR 2004005649 A 20050719 BR 2004-5649 20040130 EP 1601335 A1 20051207 EP 2004-706670 20040130 US 2006162096 A1 20060727 US 2005-530065 20050324 PRIORITY APPLN. INFO.: DE 2003-10309522 A 20030305 WO 2004-EP816 W 20040130				

OTHER SOURCE(S): MARPAT 141:265567

AB The invention concerns hair preps. for simultaneous bleaching and dyeing; the compns. include as developing agents thiazole, oxazole, imidazole, benzothiazole, benzoxazole, triazole and thiadiazole derivs. of hydrazone; further ingredients are coupling dyes and a persulfate as oxidn./bleaching agent. Thus 3,4-dimethyl-2(3H)-thiazolone-1-(methylethylidene)-hydrazone was prepd. by reacting 21 g 4-methyl-3-thiosemicarbazide with 20.4 g chloroacetone in acetone at b.p. under reflux. The product was recrystd. from acetone; 23 orange powder was obtained. 3.5 G of the 3,4-dimethyl-2(3H)-thiazolone-1-(methylethylidene)-hydrazone was treated with 60 mL 6 M HCl at 50°C for 30 min; the reaction product was concd. and recrystd. from ethanol to yield 2 g pink 3,4-dimethyl-2(3H)-thiazolone-hydrazone hydrochloride. A hair dye compn. included (g): component A1: Plantaren 2000 (50% soln.) 4.00;

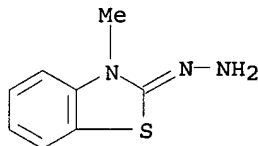
EDTA disodium salt 0.20; ethanol 5.00; 3,4-dimethyl-2(3H)-thiazolone-hydrazone hydrochloride hydrate 0.58; water to 100; component A2: 1,3-diaminobenzene 0.27; potassium persulfate 0.67.

IT 1128-67-2 3161-77-1 3316-70-9  
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RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (oxidative hair dyes with bleaching agent  
 contg. hydrazone compds. as developing agents)

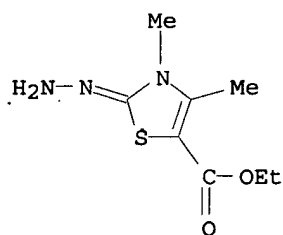
RN 1128-67-2 HCAPLUS

CN 2(3H)-Benzothiazolone, 3-methyl-, hydrazone (9CI) (CA INDEX NAME)



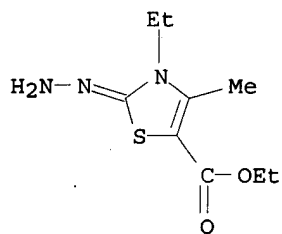
RN 3161-77-1 HCAPLUS

CN 5-Thiazolecarboxylic acid, 2-hydrazono-2,3-dihydro-3,4-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)



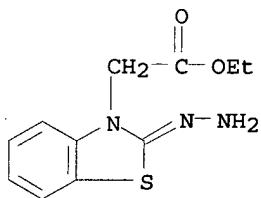
RN 3316-70-9 HCAPLUS

CN 5-Thiazolecarboxylic acid, 3-ethyl-2-hydrazono-2,3-dihydro-4-methyl-, ethyl ester (9CI) (CA INDEX NAME)



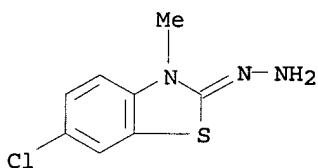
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CN 3(2H)-Benzothiazoleacetic acid, 2-hydrazono-, ethyl ester (9CI) (CA INDEX NAME)



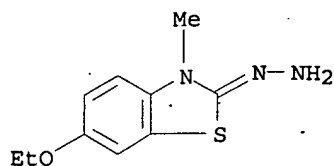
RN 20065-04-7 HCAPLUS

CN 2(3H)-Benzothiazolone, 6-chloro-3-methyl-, hydrazone (9CI) (CA INDEX NAME)

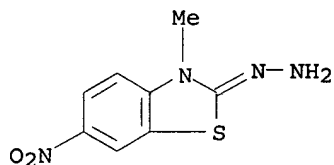


RN 20065-05-8 HCAPLUS

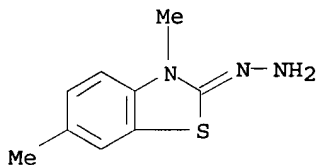
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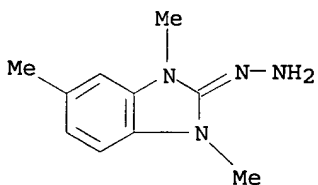
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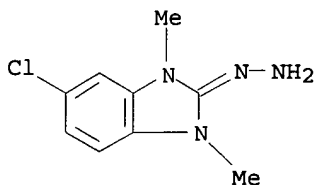
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 CN 2(3H)-Benzothiazolone, 3,6-dimethyl-, hydrazone (9CI) (CA INDEX NAME)



RN 21337-39-3 HCAPLUS  
 CN 2H-Benzimidazol-2-one, 1,3-dihydro-1,3,5-trimethyl-, hydrazone (9CI) (CA INDEX NAME)

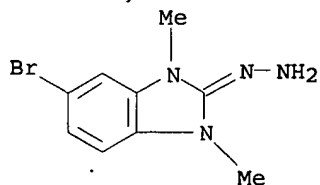


RN 21337-40-6 HCAPLUS  
 CN 2H-Benzimidazol-2-one, 5-chloro-1,3-dihydro-1,3-dimethyl-, hydrazone (9CI) (CA INDEX NAME)



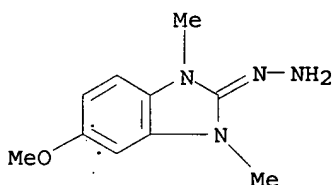
RN 21337-41-7 HCAPLUS

CN 2H-Benzimidazol-2-one, 5-bromo-1,3-dihydro-1,3-dimethyl-, hydrazone  
(9CI) (CA INDEX NAME)



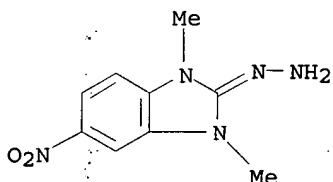
RN 21337-42-8 HCAPLUS

CN 2H-Benzimidazol-2-one, 1,3-dihydro-5-methoxy-1,3-dimethyl-,  
hydrazone (9CI) (CA INDEX NAME)



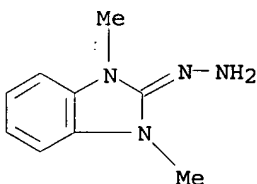
RN 21337-43-9 HCAPLUS

CN 2H-Benzimidazol-2-one, 1,3-dihydro-1,3-dimethyl-5-nitro-, hydrazone  
(9CI) (CA INDEX NAME)



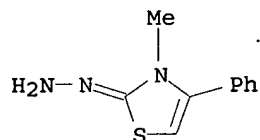
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CN 2H-Benzimidazol-2-one, 1,3-dihydro-1,3-dimethyl-, hydrazone (9CI)  
(CA INDEX NAME)

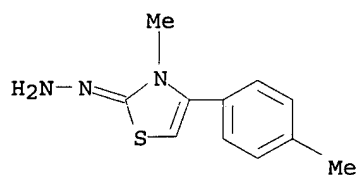


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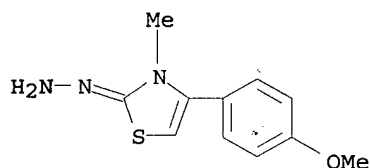
CN 2(3H)-Thiazolone, 3-methyl-4-phenyl-, hydrazone (9CI) (CA INDEX  
NAME)



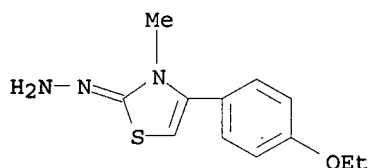
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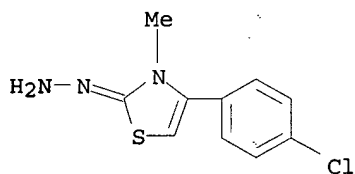
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CN 2(3H)-Thiazolone, 4-(4-methoxyphenyl)-3-methyl-, hydrazone (9CI) (CA INDEX NAME)



RN 21817-88-9 HCAPLUS  
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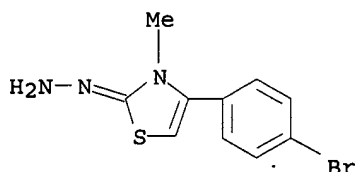


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CN 2(3H)-Thiazolone, 4-(4-chlorophenyl)-3-methyl-, hydrazone (9CI) (CA INDEX NAME)



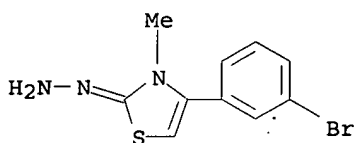
RN 21817-90-3 HCAPLUS

CN 2(3H)-Thiazolone, 4-(4-bromophenyl)-3-methyl-, hydrazone (9CI) (CA INDEX NAME)



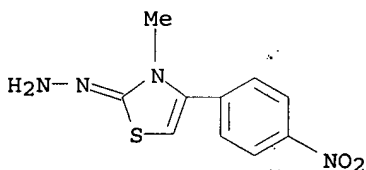
RN 21817-91-4 HCAPLUS

CN 2(3H)-Thiazolone, 4-(3-bromophenyl)-3-methyl-, hydrazone (9CI) (CA INDEX NAME)



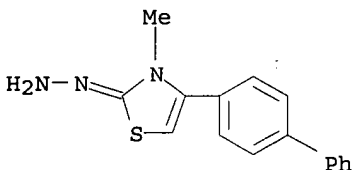
RN 21817-92-5 HCAPLUS

CN 2(3H)-Thiazolone, 3-methyl-4-(4-nitrophenyl)-, hydrazone (9CI) (CA INDEX NAME)



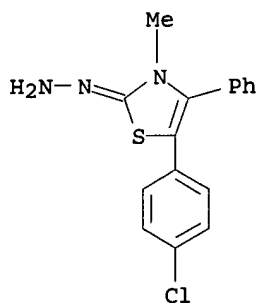
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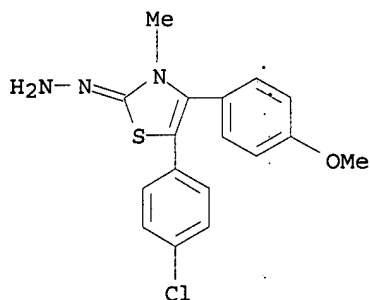


RN 27893-83-0 HCAPLUS

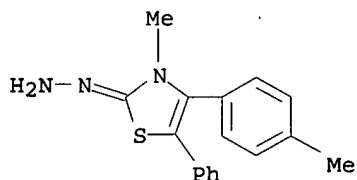
CN 2(3H)-Thiazolone, 5-(4-chlorophenyl)-3-methyl-4-phenyl-, hydrazone (9CI) (CA INDEX NAME)



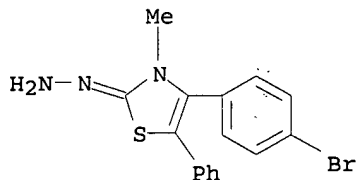
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 CN 2(3H)-Thiazolone, 5-(4-chlorophenyl)-4-(4-methoxyphenyl)-3-methyl-,  
 hydrazone (9CI) (CA INDEX NAME)



RN 27893-86-3 HCAPLUS  
 CN 2(3H)-Thiazolone, 3-methyl-4-(4-methylphenyl)-5-phenyl-, hydrazone  
 (9CI) (CA INDEX NAME)

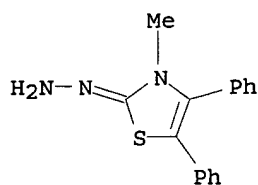


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 (9CI) (CA INDEX NAME)

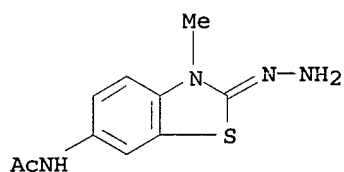


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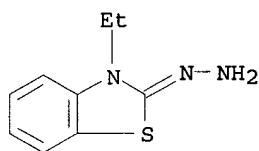




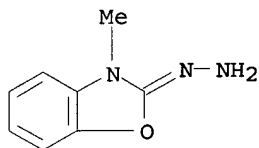
RN 28218-90-8 HCAPLUS  
 CN Acetamide, N-(2-hydrazono-2,3-dihydro-3-methyl-6-benzothiazolyl)-  
 (9CI) (CA INDEX NAME)



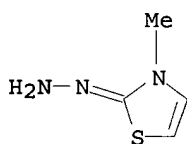
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 CN 2(3H)-Benzothiazolone, 3-ethyl-, hydrazone (9CI) (CA INDEX NAME)



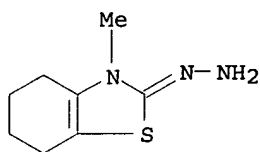
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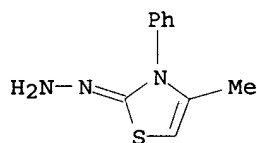
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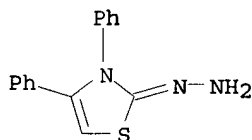
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 CN 2(3H)-Benzothiazolone, 4,5,6,7-tetrahydro-3-methyl-, hydrazone (9CI)  
 (CA INDEX NAME)



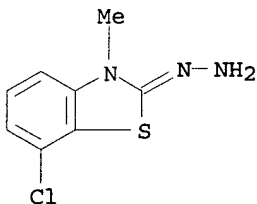
RN 33167-60-1 HCAPLUS  
 CN 2(3H)-Thiazolone, 4-methyl-3-phenyl-, hydrazone (9CI) (CA INDEX NAME)



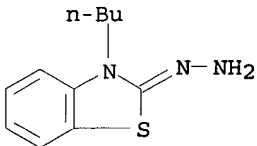
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 CN 2(3H)-Thiazolone, 3,4-diphenyl-, hydrazone (9CI) (CA INDEX NAME)



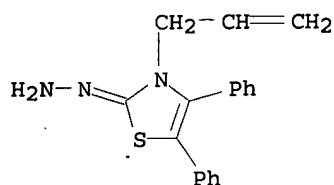
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 CN 2(3H)-Benzothiazolone, 7-chloro-3-methyl-, hydrazone (9CI) (CA INDEX NAME)



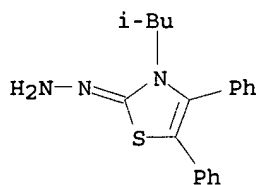
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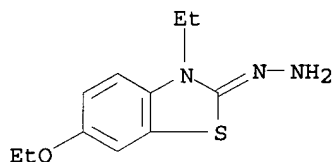
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 CN 2(3H)-Thiazolone, 4,5-diphenyl-3-(2-propenyl)-, hydrazone (9CI) (CA INDEX NAME)



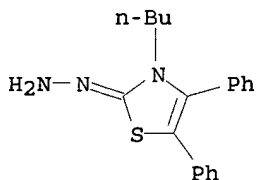
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 (CA INDEX NAME)



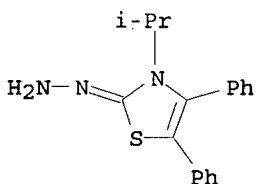
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 CN 2(3H)-Benzothiazolone, 6-ethoxy-3-ethyl-, hydrazone (9CI) (CA INDEX NAME)



RN 67644-68-2 HCAPLUS  
 CN 2(3H)-Thiazolone, 3-butyl-4,5-diphenyl-, hydrazone (9CI) (CA INDEX NAME)

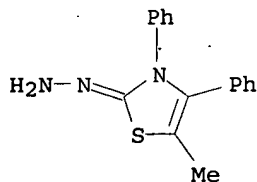


RN 67644-69-3 HCAPLUS  
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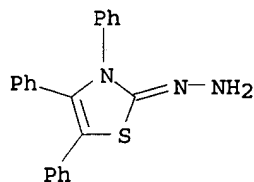
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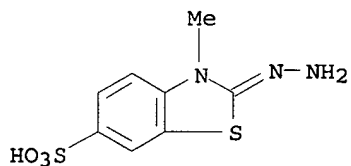
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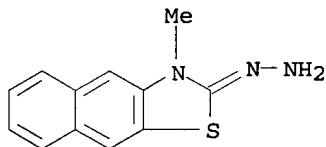
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CN 6-Benzothiazolesulfonic acid, 2-hydrazono-2,3-dihydro-3-methyl- (9CI) (CA INDEX NAME)



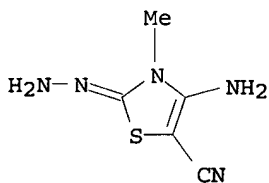
RN 76411-65-9 HCAPLUS

CN Naphtho[2,3-d]thiazol-2(3H)-one, 3-methyl-, hydrazone (9CI) (CA INDEX NAME)

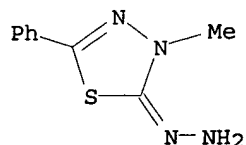


RN 81402-80-4 HCAPLUS

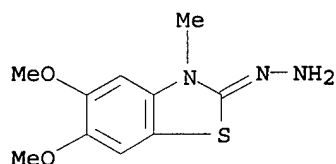
CN 5-Thiazolecarbonitrile, 4-amino-2-hydrazono-2,3-dihydro-3-methyl- (9CI) (CA INDEX NAME)



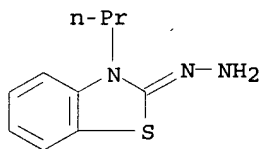
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CN 1,3,4-Thiadiazol-2(3H)-one, 3-methyl-5-phenyl-, hydrazone (9CI) (CA INDEX NAME)



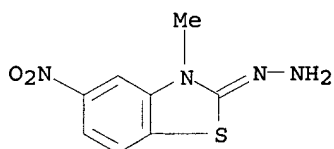
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CN 2(3H)-Benzothiazolone, 5,6-dimethoxy-3-methyl-, hydrazone (9CI) (CA INDEX NAME)



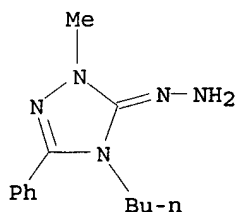
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CN 2(3H)-Benzothiazolone, 3-propyl-, hydrazone (9CI) (CA INDEX NAME)



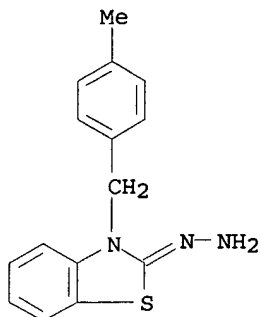
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CN 2(3H)-Benzothiazolone, 3-methyl-5-nitro-, hydrazone (9CI) (CA INDEX NAME)



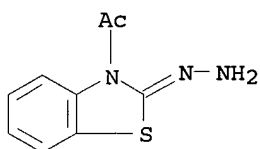
RN 108872-91-9 HCAPLUS  
CN 3H-1,2,4-Triazol-3-one, 4-butyl-2-methyl-5-phenyl-, hydrazone (9CI) (CA INDEX NAME)



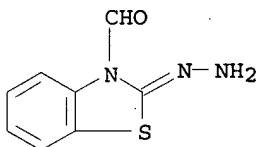
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CN 2(3H)-Benzothiazolone, 3-[(4-methylphenyl)methyl]-, hydrazone (9CI)  
(CA INDEX NAME)



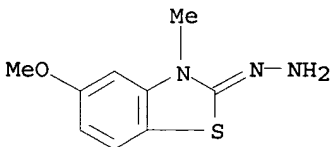
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CN 2(3H)-Benzothiazolone, 3-acetyl-, 2-hydrazone (9CI) (CA INDEX NAME)



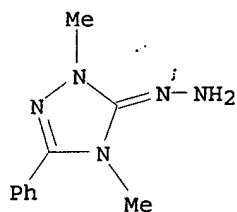
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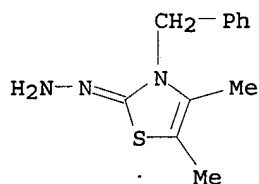
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CN 2(3H)-Benzothiazolone, 5-methoxy-3-methyl-, hydrazone (9CI) (CA INDEX NAME)



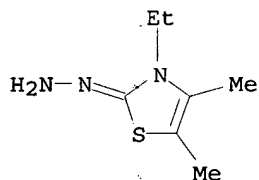
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hydrazone (9CI) (CA INDEX NAME)



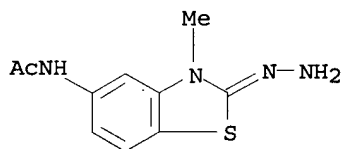
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 (CA INDEX NAME)



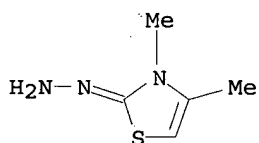
RN 111427-06-6 HCAPLUS  
 CN 2(3H)-Thiazolone, 3-ethyl-4,5-dimethyl-, hydrazone (9CI) (CA INDEX NAME)



RN 114098-30-5 HCAPLUS  
 CN Acetamide, N-(2-hydrazono-2,3-dihydro-3-methyl-5-benzothiazolyl)-  
 (9CI) (CA INDEX NAME)

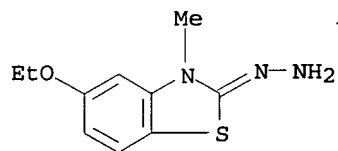


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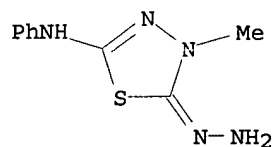


RN 117043-63-7 HCAPLUS  
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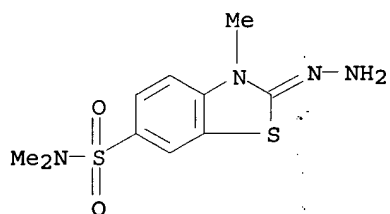
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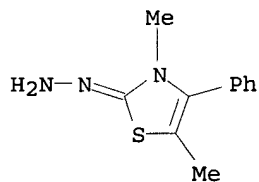
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 (9CI) (CA INDEX NAME)



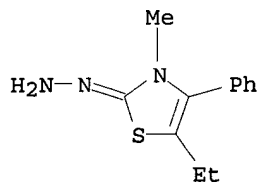
RN 130252-23-2 HCAPLUS  
 CN 6-Benzothiazolesulfonamide, 2-hydrazono-2,3-dihydro-N,N,3-trimethyl-  
 (9CI) (CA INDEX NAME)



RN 138485-20-8 HCAPLUS  
 CN 2(3H)-Thiazolone, 3,5-dimethyl-4-phenyl-, hydrazone (9CI) (CA INDEX NAME)

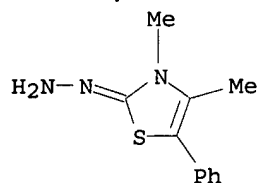


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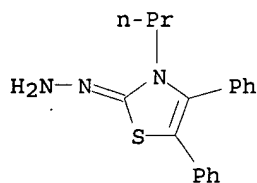




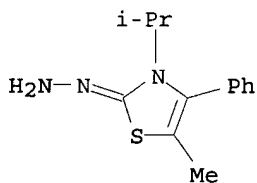
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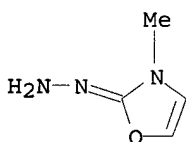
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 CN 2(3H)-Thiazolone, 4,5-diphenyl-3-propyl-, hydrazone (9CI) (CA INDEX NAME)



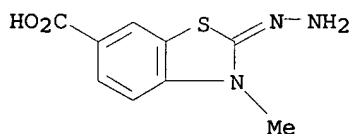
RN 157559-65-4 HCAPLUS  
 CN 2(3H)-Thiazolone, 5-methyl-3-(1-methylethyl)-4-phenyl-, hydrazone (9CI) (CA INDEX NAME)



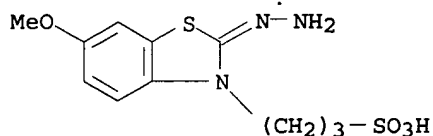
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 CN 2(3H)-Oxazolone, 3-methyl-, hydrazone (9CI) (CA INDEX NAME)



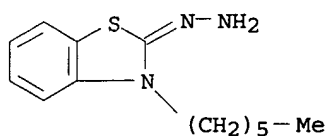
RN 185454-77-7 HCAPLUS  
 CN 6-Benzothiazolecarboxylic acid, 2-hydrazono-2,3-dihydro-3-methyl- (9CI) (CA INDEX NAME)



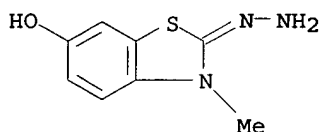
RN 200630-28-0 HCAPLUS  
 CN 3(2H)-Benzothiazolepropanesulfonic acid, 2-hydrazono-6-methoxy-  
 (9CI) (CA INDEX NAME)



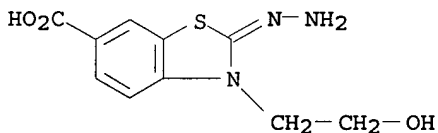
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 CN 2(3H)-Benzothiazolone, 3-hexyl-, hydrazone (9CI) (CA INDEX NAME)



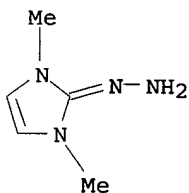
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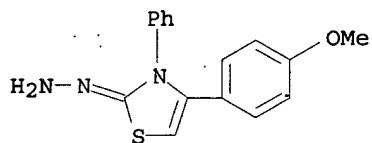
RN 383411-41-4 HCAPLUS  
 CN 6-Benzothiazolecarboxylic acid, 2-hydrazono-2,3-dihydro-3-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)



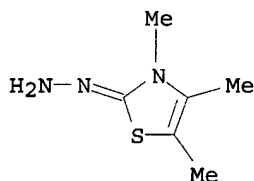
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 CN 2H-Imidazol-2-one, 1,3-dihydro-1,3-dimethyl-, hydrazone (9CI) (CA INDEX NAME)



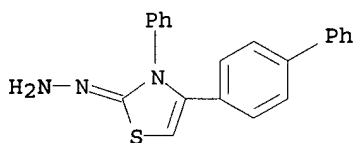
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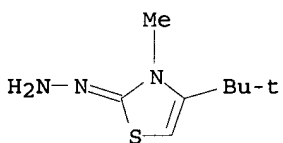
RN 692250-45-6 HCAPLUS  
CN 2(3H)-Thiazolone, 3,4,5-trimethyl-, hydrazone (9CI) (CA INDEX NAME)



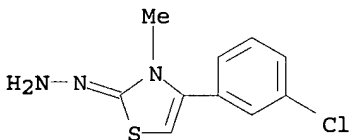
RN 718589-95-8 HCAPLUS  
CN 2(3H)-Thiazolone, 4-[1,1'-biphenyl]-4-yl-3-phenyl-, hydrazone (9CI)  
(CA INDEX NAME)



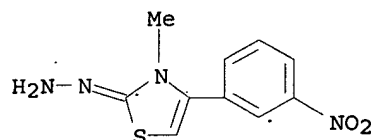
RN 753027-71-3 HCAPLUS  
CN 2(3H)-Thiazolone, 4-(1,1-dimethylethyl)-3-methyl-, hydrazone (9CI)  
(CA INDEX NAME)



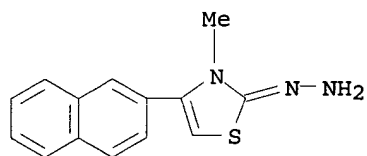
RN 753027-72-4 HCAPLUS  
CN 2(3H)-Thiazolone, 4-(3-chlorophenyl)-3-methyl-, hydrazone (9CI) (CA INDEX NAME)



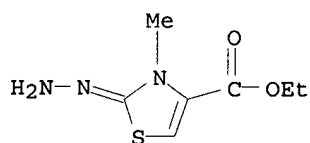
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CN 2(3H)-Thiazolone, 3-methyl-4-(3-nitrophenyl)-, hydrazone (9CI) (CA INDEX NAME)



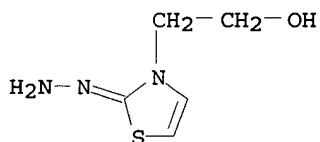
RN 753027-74-6 HCAPLUS  
 CN 2(3H)-Thiazolone, 3-methyl-4-(2-naphthalenyl)-, hydrazone (9CI) (CA INDEX NAME)



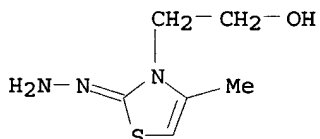
RN 753027-75-7 HCAPLUS  
 CN 4-Thiazolecarboxylic acid, 2-hydrazono-2,3-dihydro-3-methyl-, ethyl ester (9CI) (CA INDEX NAME)



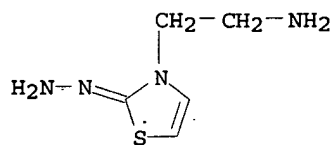
RN 753027-76-8 HCAPLUS  
 CN 2(3H)-Thiazolone, 3-(2-hydroxyethyl)-, hydrazone (9CI) (CA INDEX NAME)



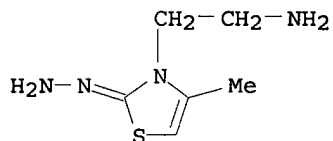
RN 753027-77-9 HCAPLUS  
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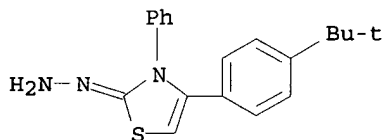
RN 753027-78-0 HCAPLUS  
 CN 2(3H)-Thiazolone, 3-(2-aminoethyl)-, hydrazone (9CI) (CA INDEX NAME)



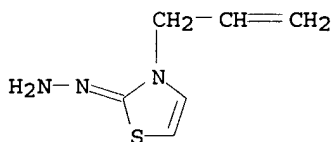
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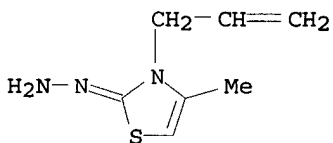
RN 753027-80-4 HCAPLUS  
 CN 2(3H)-Thiazolone, 4-[4-(1,1-dimethylethyl)phenyl]-3-phenyl-, hydrazone (9CI) (CA INDEX NAME)



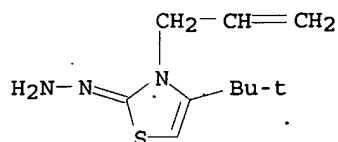
RN 753027-81-5 HCAPLUS  
 CN 2(3H)-Thiazolone, 3-(2-propenyl)-, hydrazone (9CI) (CA INDEX NAME)



RN 753027-82-6 HCAPLUS  
 CN 2(3H)-Thiazolone, 4-methyl-3-(2-propenyl)-, hydrazone (9CI) (CA INDEX NAME)

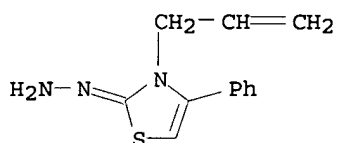


RN 753027-83-7 HCAPLUS  
 CN 2(3H)-Thiazolone, 4-(1,1-dimethylethyl)-3-(2-propenyl)-, hydrazone (9CI) (CA INDEX NAME)



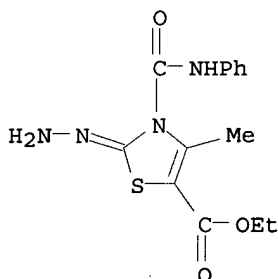
RN 753027-84-8 HCAPLUS

CN 2(3H)-Thiazolone, 4-phenyl-3-(2-propenyl)-, hydrazone (9CI) (CA INDEX NAME)



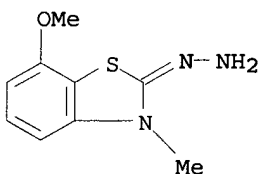
RN 753027-85-9 HCAPLUS

CN 5-Thiazolecarboxylic acid, 2-hydrazono-2,3-dihydro-4-methyl-3-[(phenylamino)carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



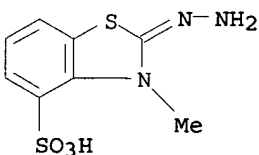
RN 753027-86-0 HCAPLUS

CN 2(3H)-Benzothiazolone, 7-methoxy-3-methyl-, hydrazone (9CI) (CA INDEX NAME)

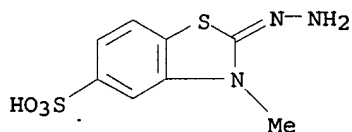


RN 753027-87-1 HCAPLUS

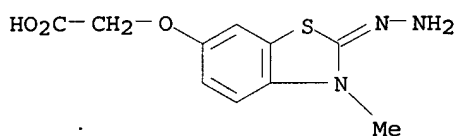
CN 4-Benzothiazolesulfonic acid, 2-hydrazono-2,3-dihydro-3-methyl- (9CI) (CA INDEX NAME)



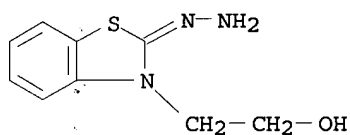
RN 753027-88-2 HCAPLUS  
 CN 5-Benzothiazolesulfonic acid, 2-hydrazono-2,3-dihydro-3-methyl-  
 (9CI) (CA INDEX NAME)



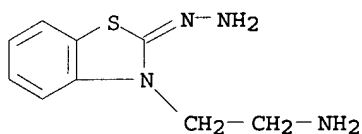
RN 753027-90-6 HCAPLUS  
 CN Acetic acid, [(2-hydrazono-2,3-dihydro-3-methyl-6-benzothiazolyl)oxy]- (9CI) (CA INDEX NAME)



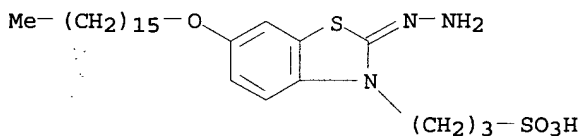
RN 753027-91-7 HCAPLUS  
 CN 2(3H)-Benzothiazolone, 3-(2-hydroxyethyl)-, hydrazone (9CI) (CA INDEX NAME)



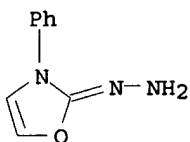
RN 753027-92-8 HCAPLUS  
 CN 2(3H)-Benzothiazolone, 3-(2-aminoethyl)-, hydrazone (9CI) (CA INDEX NAME)



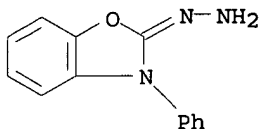
RN 753027-94-0 HCAPLUS  
 CN 3(2H)-Benzothiazolepropanesulfonic acid, 6-(hexadecyloxy)-2-hydrazono- (9CI) (CA INDEX NAME)



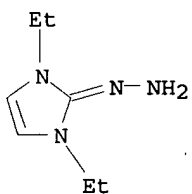
RN 753027-95-1 HCAPLUS  
 CN 2(3H)-Oxazolone, 3-phenyl-, hydrazone (9CI) (CA INDEX NAME)



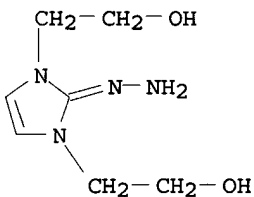
RN 753027-96-2 HCAPLUS  
 CN 2(3H)-Benzoxazolone, 3-phenyl-, hydrazone (9CI) (CA INDEX NAME)



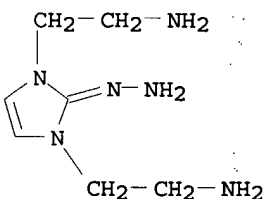
RN 754201-32-6 HCAPLUS  
 CN 2H-Imidazol-2-one, 1,3-diethyl-1,3-dihydro-, hydrazone (9CI) (CA INDEX NAME)



RN 754201-33-7 HCAPLUS  
 CN 2H-Imidazol-2-one, 1,3-bis(2-hydroxyethyl)-, hydrazone (9CI) (CA INDEX NAME)



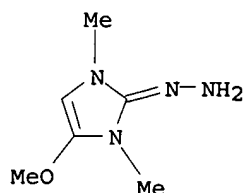
RN 754201-34-8 HCAPLUS  
 CN 2H-Imidazol-2-one, 1,3-bis(2-aminoethyl)-, hydrazone (9CI) (CA INDEX NAME)



RN 754201-35-9 HCAPLUS

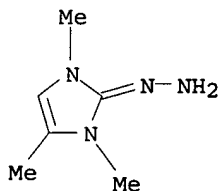


CN 2H-Imidazol-2-one, 1,3-dihydro-4-methoxy-1,3-dimethyl-, hydrazone  
(9CI) (CA INDEX NAME)



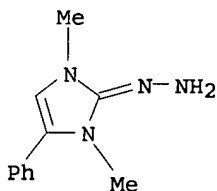
RN 754201-36-0 HCAPLUS

CN 2H-Imidazol-2-one, 1,3-dihydro-1,3,4-trimethyl-, hydrazone (9CI)  
(CA INDEX NAME)



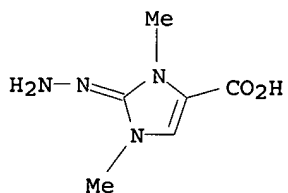
RN 754201-37-1 HCAPLUS

CN 2H-Imidazol-2-one, 1,3-dihydro-1,3-dimethyl-4-phenyl-, hydrazone  
(9CI) (CA INDEX NAME)



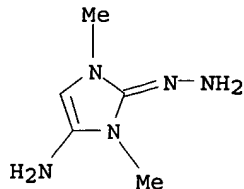
RN 754201-38-2 HCAPLUS

CN 1H-Imidazole-4-carboxylic acid, 2-hydrazono-2,3-dihydro-1,3-dimethyl-  
(9CI) (CA INDEX NAME)



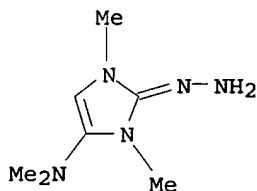
RN 754201-39-3 HCAPLUS

CN 2H-Imidazol-2-one, 4-amino-1,3-dihydro-1,3-dimethyl-, hydrazone  
(9CI) (CA INDEX NAME)



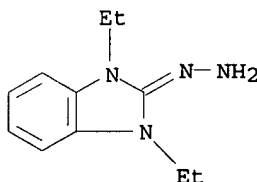
RN 754201-40-6 HCAPLUS

CN 2H-Imidazol-2-one, 4-(dimethylamino)-1,3-dihydro-1,3-dimethyl-,  
hydrazone (9CI) (CA INDEX NAME)



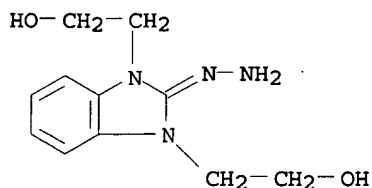
RN 754201-41-7 HCAPLUS

CN 2H-Benzimidazol-2-one, 1,3-diethyl-1,3-dihydro-, hydrazone (9CI)  
(CA INDEX NAME)



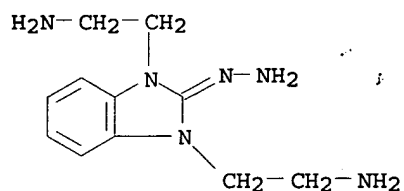
RN 754201-42-8 HCAPLUS

CN 2H-Benzimidazol-2-one, 1,3-dihydro-1,3-bis(2-hydroxyethyl)-,  
hydrazone (9CI) (CA INDEX NAME)

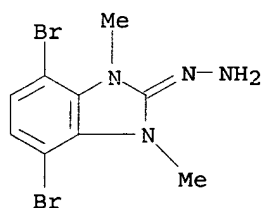


RN 754201-43-9 HCAPLUS

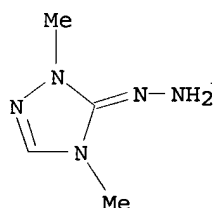
CN 2H-Benzimidazol-2-one, 1,3-bis(2-aminoethyl)-1,3-dihydro-, hydrazone  
(9CI) (CA INDEX NAME)



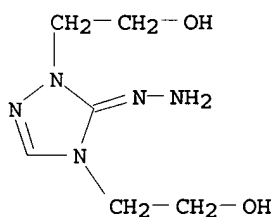
RN 754201-44-0 HCAPLUS  
 CN 2H-Benzimidazol-2-one, 4,7-dibromo-1,3-dihydro-1,3-dimethyl-,  
 hydrazone (9CI) (CA INDEX NAME)



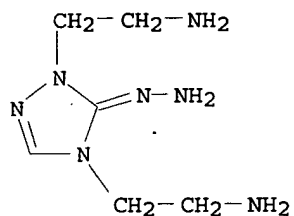
RN 754201-45-1 HCAPLUS  
 CN 3H-1,2,4-Triazol-3-one, 2,4-dihydro-2,4-dimethyl-, hydrazone (9CI)  
 (CA INDEX NAME)



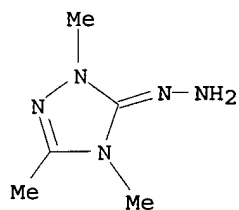
RN 754201-46-2 HCAPLUS  
 CN 3H-1,2,4-Triazol-3-one, 2,4-dihydro-2,4-bis(2-hydroxyethyl)-,  
 hydrazone (9CI) (CA INDEX NAME)



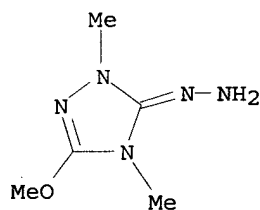
RN 754201-47-3 HCAPLUS  
 CN 3H-1,2,4-Triazol-3-one, 2,4-bis(2-aminoethyl)-2,4-dihydro-,  
 hydrazone (9CI) (CA INDEX NAME)



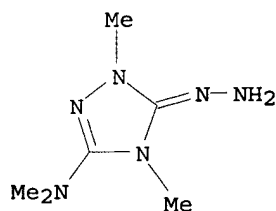
RN 754201-48-4 HCAPLUS  
CN 3H-1,2,4-Triazol-3-one, 2,4-dihydro-2,4,5-trimethyl-, hydrazone  
(9CI) (CA INDEX NAME)



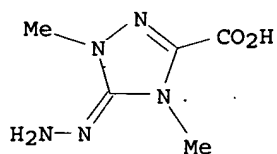
RN 754201-49-5 HCAPLUS  
CN 3H-1,2,4-Triazol-3-one, 2,4-dihydro-5-methoxy-2,4-dimethyl-,  
hydrazone (9CI) (CA INDEX NAME)



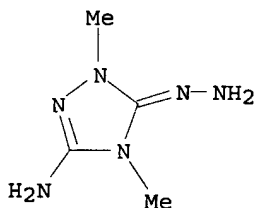
RN 754201-50-8 HCAPLUS  
CN 3H-1,2,4-Triazol-3-one, 5-(dimethylamino)-2,4-dihydro-2,4-dimethyl-,  
hydrazone (9CI) (CA INDEX NAME)



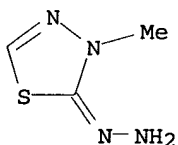
RN 754201-51-9 HCAPLUS  
CN 1H-1,2,4-Triazole-3-carboxylic acid, 5-hydrazono-4,5-dihydro-1,4-  
dimethyl- (9CI) (CA INDEX NAME)



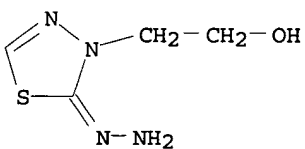
RN 754201-52-0 HCAPLUS  
 CN 3H-1,2,4-Triazol-3-one, 5-amino-2,4-dihydro-2,4-dimethyl-, hydrazone (9CI) (CA INDEX NAME)



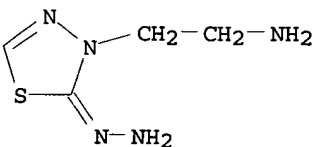
RN 754201-53-1 HCAPLUS  
 CN 1,3,4-Thiadiazol-2(3H)-one, 3-methyl-, hydrazone (9CI) (CA INDEX NAME)



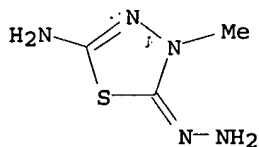
RN 754201-54-2 HCAPLUS  
 CN 1,3,4-Thiadiazol-2(3H)-one, 3-(2-hydroxyethyl)-, hydrazone (9CI) (CA INDEX NAME)



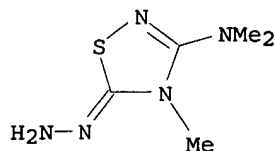
RN 754201-55-3 HCAPLUS  
 CN 1,3,4-Thiadiazol-2(3H)-one, 3-(2-aminoethyl)-, hydrazone (9CI) (CA INDEX NAME)



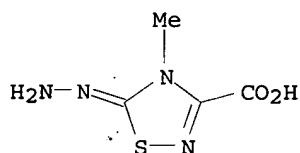
RN 754201-56-4 HCAPLUS  
 CN 1,3,4-Thiadiazol-2(3H)-one, 5-amino-3-methyl-, hydrazone (9CI) (CA INDEX NAME)



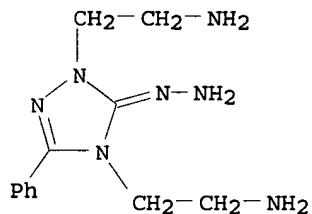
RN 754201-57-5 HCAPLUS  
 CN 1,2,4-Thiadiazol-5(4H)-one, 3-(dimethylamino)-4-methyl-, hydrazone  
 (9CI) (CA INDEX NAME)



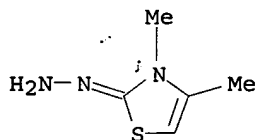
RN 754201-58-6 HCAPLUS  
 CN 1,2,4-Thiadiazole-3-carboxylic acid, 5-hydrazono-4,5-dihydro-4-methyl- (9CI) (CA INDEX NAME)



RN 754201-59-7 HCAPLUS  
 CN 3H-1,2,4-Triazol-3-one, 2,4-bis(2-aminoethyl)-2,4-dihydro-5-phenyl-, hydrazone (9CI) (CA INDEX NAME)



IT 114252-54-9P  
 RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation);  
 PREP (Preparation); RACT (Reactant or reagent)  
 (oxidative hair dyes with bleaching agent  
 contg. hydrazone compds. as developing agents)  
 RN 114252-54-9 HCAPLUS  
 CN 2(3H)-Thiazolone, 3,4-dimethyl-, hydrazone, monohydrochloride (9CI)  
 (CA INDEX NAME)



● HCl

IC ICM A61K007-13  
 CC 62-3 (Essential Oils and Cosmetics)  
 Section cross-reference(s): 28  
 ST hydrazone thiazole oxazole benzoxazole oxidative **hair dye** persulfate bleaching  
 IT Hair preparations  
 (bleaches; oxidative **hair dyes** with bleaching agent contg. hydrazone compds. as developing agents)  
 IT **Dyes**  
 (direct; oxidative **hair dyes** with bleaching agent contg. hydrazone compds. as developing agents)  
 IT Hair preparations  
 (**dyes**, oxidative; oxidative **hair dyes** with bleaching agent contg. hydrazone compds. as developing agents)  
 IT Oxidizing agents  
 pH  
 (oxidative **hair dyes** with bleaching agent contg. hydrazone compds. as developing agents)  
 IT Hydrazones  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (oxidative **hair dyes** with bleaching agent contg. hydrazone compds. as developing agents)  
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14268-66-7, 3,4-Methylenedioxyaniline 15315-48-7  
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20065-05-8 20065-06-9 20125-57-9  
21337-39-3 21337-40-6 21337-41-7  
21337-42-8 21337-43-9 21337-45-1  
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21817-88-9 21817-89-0 21817-90-3  
21817-91-4 21817-92-5 21882-34-8  
26011-57-4, 6-Amino-3,4-dihydro-1,4(2H)-benzoxazine 26021-57-8,  
3,4-Dihydro-6-hydroxy-1,4(2H)-benzoxazine 26455-21-0,  
N-(3-Dimethylaminophenyl)urea 27893-83-0  
27893-84-1 27893-86-3 27893-88-5  
28020-38-4, 2,3-Diamino-6-methoxypyridine 28029-80-3  
28218-90-8 28218-93-1 28219-07-0  
28219-33-2 28219-40-1 29539-03-5,  
5,6-Dihydroxyindoline 33167-60-1 39489-79-7,  
5-Amino-2,4-dichlorophenol 41339-01-9 51769-42-7  
53222-92-7, 3-Amino-2-methylphenol 55302-96-0,  
5-[(2-Hydroxyethyl)amino]-2-methylphenol 60448-01-3  
61693-42-3, 3-Amino-2,4-dichlorophenol 64071-37-0  
64071-38-1 64873-66-1 67644-68-2  
67644-69-3 68746-10-1 68746-11-2  
70643-19-5, 2,4-Diamino-1-(2-hydroxyethoxy)benzene 71077-37-7,  
1,3-Diamino-4-(2-methoxyethoxy)benzene 71176-53-9  
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1,3-Diamino-4-(2,3-dihydroxypropoxy)benzene 76045-64-2,  
3-[(2-Aminoethyl)amino]aniline 76411-65-9 78661-33-3,  
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3-[(2-Hydroxyethyl)amino]-2-methylphenol 81329-90-0,  
5-[(2-Hydroxyethyl)amino]-1,3-benzodioxol 81402-80-4  
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2,4-Diaminophenoxyacetic acid 84540-50-1, 3-Amino-2-chloro-6-  
methylphenol 85679-78-3, 3,5-Diamino-2,6-dimethoxypyridine  
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hydroxyethoxy)benzene 94267-69-3 104410-33-5  
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1,2-Dichloro-3,5-dihydroxy-4-methylbenzene 108129-92-6  
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2,6-Diamino-3,5-dimethoxypyridine 114098-30-5  
114252-53-8 115423-86-4, 1,3-Diamino-2,4-dimethoxybenzene  
117043-63-7 119272-02-5 122455-85-0,  
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754201-54-2 754201-55-3 754201-56-4  
754201-57-5 754201-58-6 754201-59-7

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(oxidative hair dyes with bleaching agent  
contg. hydrazone compds. as developing agents)

IT 114252-54-9P

RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation);  
PREP (Preparation); RACT (Reactant or reagent)  
(oxidative hair dyes with bleaching agent  
contg. hydrazone compds. as developing agents)

L29 ANSWER 5 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:291073 HCAPLUS

DOCUMENT NUMBER: 140:326607

TITLE: Hair dye composition  
comprising at least a heterocyclic oxidation  
base and at least a substituted  
2,3-diaminopyridine coupler

INVENTOR(S): Kravtchenko, Sylvain; Lagrange, Alain; Fadli,  
Aziz

PATENT ASSIGNEE(S): L'Oreal, Fr.

SOURCE: Fr. Demande, 28 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2845283	A1	20040409	FR 2002-12360	200210 04
FR 2845283	B1	20060505		
EP 1413286	A1	20040428	EP 2003-292454	200310 03

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,  
PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU,  
SK

PRIORITY APPLN. INFO.:

FR 2002-12360

A

200210  
04

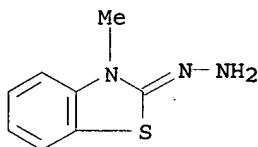
OTHER SOURCE(S): MARPAT 140:326607

AB A hair dye compn. for dyeing of  
keratinous fibers contains at least a heterocyclic oxidn.  
base and at least a substituted 2,3-diaminopyridine coupler. A

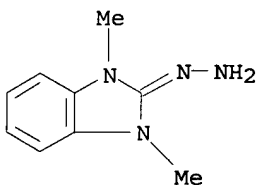
Ross Shipe EIC 1700 Remsen 4B31 571/272-6018

hair dye contained 5-methyl-3,7-diaminopyrazolopyrimidine 0.76, 6-methoxy-3-amino 2-[3'-(3"-methylimidazolium)propyl]aminopyridine 1.11, polyglycerol oleyl alc. 9.7, oleic acid 3.0, ethoxylated oleyl amine (Ethomeen 012) 7.0, 55% diethylaminopropyl laurylamino succinamate sodium salt 3.09, oleic alc. 5.0, oleic acid diethanolamide 12.0, propylene glycol 3.5, Et alc. 7.0, dipropyleneglycol 0.5, propylene glycol monomethyl ether 9.0, 35% sodium metabisulfite aq soln. 0.46, ammonium acetate 0.8, antioxidant q.s., sequestrant q.s., perfume q.s., preservatives q.s., and water q.s. 100.0 g.

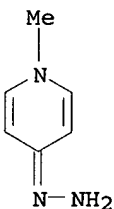
IT 1128-67-2, n-Methyl-benzothiazolone-2-hydrazone  
 21337-45-1 27256-92-4, n-Methyl-pyridone-4-hydrazone 28218-86-2, n-Methyl-quinolone-4-hydrazone  
 28219-33-2 28219-35-4, n-Methyl-pyridone-2-hydrazone 28219-36-5, 1,2,6-Trimethyl-4-pyridone hydrazone  
 28219-37-6, 1-Methyl-quinolone-2-hydrazone  
 28219-38-7 28219-39-8 28219-40-1  
 28219-41-2, 1,2,5-Trimethyl-3-pyrazolone hydrazone  
 28381-00-2 677761-44-3 677761-46-5  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hair dye compn. comprising at least heterocyclic oxidn. base and at least substituted diaminopyridine coupler)  
 RN 1128-67-2 HCAPLUS  
 CN 2(3H)-Benzothiazolone, 3-methyl-, hydrazone (9CI) (CA INDEX NAME)



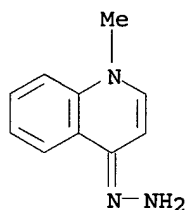
RN 21337-45-1 HCAPLUS  
 CN 2H-Benzimidazol-2-one, 1,3-dihydro-1,3-dimethyl-, hydrazone (9CI)  
 (CA INDEX NAME)



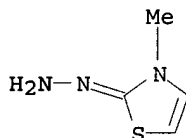
RN 27256-92-4 HCAPLUS  
 CN 4(1H)-Pyridinone, 1-methyl-, hydrazone (9CI) (CA INDEX NAME)



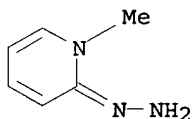
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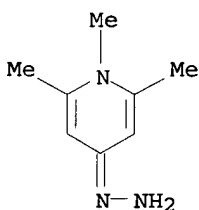
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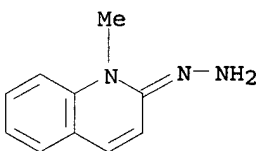
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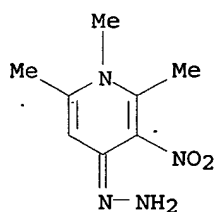
RN 28219-36-5 HCAPLUS  
CN 4(1H)-Pyridinone, 1,2,6-trimethyl-, hydrazone (9CI) (CA INDEX NAME)



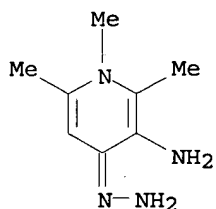
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CN 2(1H)-Quinolinone, 1-methyl-, hydrazone (9CI) (CA INDEX NAME)



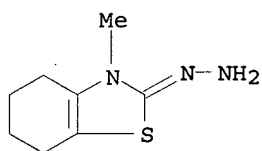
RN 28219-38-7 HCAPLUS  
CN 4(1H)-Pyridinone, 1,2,6-trimethyl-3-nitro-, hydrazone (9CI) (CA INDEX NAME)



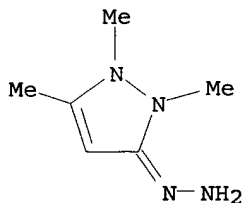
RN 28219-39-8 HCAPLUS  
 CN 4(1H)-Pyridinone, 3-amino-1,2,6-trimethyl-, hydrazone (9CI) (CA INDEX NAME)



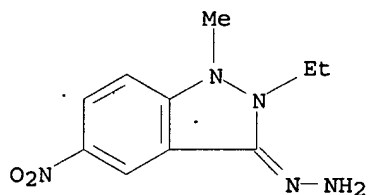
RN 28219-40-1 HCAPLUS  
 CN 2(3H)-Benzothiazolone, 4,5,6,7-tetrahydro-3-methyl-, hydrazone (9CI) (CA INDEX NAME)



RN 28219-41-2 HCAPLUS  
 CN 3H-Pyrazol-3-one, 1,2-dihydro-1,2,5-trimethyl-, hydrazone (9CI) (CA INDEX NAME)

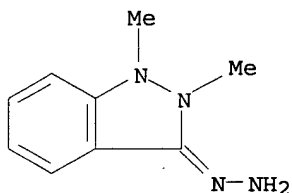


RN 28381-00-2 HCAPLUS  
 CN 3H-Indazol-3-one, 2-ethyl-1,2-dihydro-1-methyl-5-nitro-, hydrazone (9CI) (CA INDEX NAME)



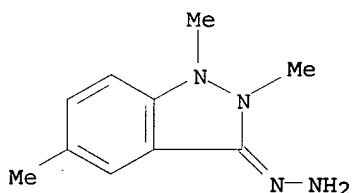
RN 677761-44-3 HCAPLUS

CN 3H-Indazol-3-one, 1,2-dihydro-1,2-dimethyl-, hydrazone (9CI) (CA INDEX NAME)



RN 677761-46-5 HCAPLUS

CN 3H-Indazol-3-one, 1,2-dihydro-1,2,5-trimethyl-, hydrazone (9CI) (CA INDEX NAME)



IC ICM A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

Section cross-reference(s): 27

ST oxidative hair dye heterocyclic oxidn base  
diaminopyridine coupler

IT Hair preparations

(dyes, oxidative; hair dye compn.

comprising at least heterocyclic oxidn. base and at least  
substituted diaminopyridine coupler)

IT 1004-76-8, 5,6-Diamino-2-thio-Uracil 1128-67-2,  
n-Methyl-benzothiazolone-2-hydrazone 3240-72-0, 5,6-Diamino-Uracil  
4149-06-8 4318-76-7, 2,5-Diamino-pyridine 5142-72-3 5440-00-6,  
5,6-Diamino-1,3-dimethyl-Uracil 6126-22-3 6604-51-9 6967-12-0,  
1H-Indazol-6-amine 7404-68-4, 1H-Indazole-5,6-diamine 13300-32-8  
13558-26-4 13558-27-5 15837-47-5 16461-98-6,  
1H-Pyrazole-3,4-diamine 19933-22-3 21337-45-1  
27256-92-4, n-Methyl-pyridone-4-hydrazone 28218-86-2  
, n-Methyl-quinolone-4-hydrazone 28218-87-3 28219-33-2  
28219-35-4, n-Methyl-pyridone-2-hydrazone 28219-36-5  
, 1,2,6-Trimethyl-4-pyridone hydrazone 28219-37-6,  
1-Methyl-quinolone-2-hydrazone 28219-38-7  
28219-39-8 28219-40-1 28219-41-2,  
1,2,5-Trimethyl-3-pyrazolone hydrazone 28381-00-2  
31595-88-7 36887-98-6 39761-89-2 39761-90-5,  
1H-Indazole-6,7-diamine 39761-91-6 40959-24-8 45514-38-3,

4,5-Diamino-1-methyl-pyrazole 46160-00-3 46183-30-6 52943-88-1  
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 132026-22-3 132026-42-7 136548-64-6 136873-17-1 141665-16-9  
 142648-55-3 155601-17-5, 4,5-Diamino-1-(2-hydroxyethyl)-pyrazole  
 184172-85-8 184172-97-2 184172-99-4 184173-00-0 184173-01-1  
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 191731-06-3 191731-07-4 191731-08-5 201599-12-4,  
 Pyrazolo[1,5-a]pyrimidine-3,7-diamine 201599-15-7 201599-22-6  
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 amine 677761-37-4 677761-38-5 677761-39-6 677761-40-9  
 677761-41-0, Pyrazolo[1,5-b]pyridazin-3-amine 677761-42-1  
 677761-43-2 677761-44-3 677761-46-5  
 677761-47-6

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(hair dye compn. comprising at least

heterocyclic oxidn. base and at least substituted diaminopyridine  
 coupler)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR  
 THIS RECORD. ALL CITATIONS AVAILABLE IN  
 THE RE FORMAT

L29 ANSWER 6 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:19747 HCAPLUS

DOCUMENT NUMBER: 140:81863

TITLE: Hair dyeing compositions  
 containing an aldehyde  
 precursor, an enzyme and a  
 hydrazone

INVENTOR(S): Burgaud, Herve; Pereira, Rui; Belcour Castro,  
 Beatrice

PATENT ASSIGNEE(S): L'oreal, Fr.

SOURCE: Fr. Demande, 27 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2841779	A1	20040109	FR 2002-8493	200207 05
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FR 2841779	B1	20060127		
EP 1415642	A1	20040506	EP 2003-291622	200307 01
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,  
 PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU,  
 SK

US 2004133992	A1	20040715	US 2003-611968	200307 03
JP 2004035558	A2	20040205	JP 2003-192693	200307 07
JP 3739371	B2	20060125		
PRIORITY APPLN. INFO.:			FR 2002-8493	A 200207 05
			US 2002-408897P	P 200209 09

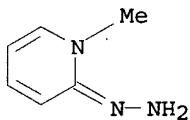
OTHER SOURCE(S): MARPAT 140:81863

AB The present invention relates to a compn. for the dyeing of keratin fibers, and in particular, human hair fibers, contg. a precursor of aldehyde, an enzyme able to generate an aldehyde starting from the aldehyde precursor and a heteroarom. hydrazone. Thus, EtOH was oxidized to acetaldehyde by alc. oxidase from *Pichia pastoris*. This was then mixed with N-ethanol-pyridine-2-hydrazone to obtain a final mixt. concn. of 0.3M. These compds. were applied on hair fibers at 37°.

IT 28219-35-4 642080-38-4 642080-39-5  
 RL: BUU (Biological use, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)  
 (hair dyeing compns. contg. aldehyde precursor and enzyme and hydrazone)

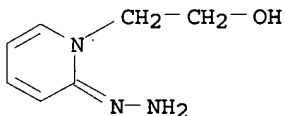
RN 28219-35-4 HCAPLUS

CN 2(1H)-Pyridinone, 1-methyl-, hydrazone (9CI) (CA INDEX NAME)



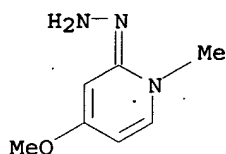
RN 642080-38-4 HCAPLUS

CN 2(1H)-Pyridinone, 1-(2-hydroxyethyl)-, hydrazone (9CI) (CA INDEX NAME)



RN 642080-39-5 HCAPLUS

CN 2(1H)-Pyridinone, 4-methoxy-1-methyl-, hydrazone (9CI) (CA INDEX NAME)



- IC ICM A61K007-13  
 CC 62-3 (Essential Oils and Cosmetics)  
 ST **hair dye aldehyde precursor**  
**enzyme hydrazone**  
 IT Amines, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (diamines, phenylenalkylene; **hair dyeing**  
 compns. contg. **aldehyde precursor** and  
**enzyme** and hydrazone)  
 IT **Hair preparations**  
 (dyes; **hair dyeing** compns. contg.  
**aldehyde precursor** and **enzyme** and  
 hydrazone)  
 IT Candida  
 Candida boidinii  
 Gastropoda  
 Human  
 Manduca  
 Manduca sexta  
 Oxidizing agents  
 Pichia  
 Pichia pastoris  
 Pinus  
 Pinus strobus  
 Plectranthus  
 Plectranthus coleoides  
 Pleurotus  
 Pleurotus pulmonarius  
 Pseudomonas  
 Pseudomonas pseudoalcaligenes  
 (**hair dyeing** compns. contg. **aldehyde**  
**precursor** and **enzyme** and hydrazone)  
 IT **Enzymes**, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (**hair dyeing** compns. contg. **aldehyde**  
**precursor** and **enzyme** and hydrazone)  
 IT **Aldehydes**, reactions  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (**hair dyeing** compns. contg. **aldehyde**  
**precursor** and **enzyme** and hydrazone)  
 IT Carboxylic acids, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study);  
 USES (Uses)  
 (oxo; **hair dyeing** compns. contg.  
**aldehyde precursor** and **enzyme** and  
 hydrazone)  
 IT Alcohols, reactions  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (primary; **hair dyeing** compns. contg.  
**aldehyde precursor** and **enzyme** and  
 hydrazone)  
 IT 72-19-5, L-Threonine, biological studies 107-97-1, Sarcosine  
 156-06-9 611-73-4 1118-68-9, Dimethylglycine 1188-07-4  
 6384-08-3, Methyl L-glutamate  
 RL: BUU (Biological use, unclassified); BIOL (Biological study);  
 USES (Uses)  
 (**hair dyeing** compns. contg. **aldehyde**



precursor and enzyme and hydrazone)

IT 9073-63-6, Alcohol Oxidase 28219-35-4 642080-38-4  
642080-39-5  
RL: BUU (Biological use, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)  
(hair dyeing compns. contg. aldehyde precursor and enzyme and hydrazone)

IT 95-55-6D, o-Aminophenol, derivs. 106-50-3D, p-Phenylenediamine, derivs. 108-45-2D, m-Phenylenediamine, derivs. 123-30-8D, p-Aminophenol, derivs. 591-27-5D, m-Aminophenol, derivs. 612-76-0D, m-Diphenol, derivs.  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(hair dyeing compns. contg. aldehyde precursor and enzyme and hydrazone)

IT 642080-40-8P 642080-41-9P 642080-42-0P 642080-43-1P  
642080-44-2P 642080-45-3P 642080-46-4P 642080-47-5P  
642080-48-6P  
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(hair dyeing compns. contg. aldehyde precursor and enzyme and hydrazone)

IT 64-17-5, Ethanol, reactions 67-56-1, Methanol, reactions  
100-51-6, Benzyl alcohol, reactions  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(hair dyeing compns. contg. aldehyde precursor and enzyme and hydrazone)

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 7 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:19745 HCAPLUS  
DOCUMENT NUMBER: 140:81861  
TITLE: Hair dye compositions containing six-membered heterocycles.  
INVENTOR(S): Terranova, Eric; Birault, Veronique  
PATENT ASSIGNEE(S): L'oreal, Fr.  
SOURCE: Fr. Demande, 27 pp.  
CODEN: FRXXBL  
DOCUMENT TYPE: Patent  
LANGUAGE: French  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2841777	A1	20040109	FR 2002-8459	20020705
FR 2841777	B1	20050610	FR 2002-8459	20020705

PRIORITY APPLN. INFO.: <--

OTHER SOURCE(S): MARPAT 140:81861

AB A hair dye compn. for use in human hair contains a 6-membered heterocyclic hydrazone. Thus, N-(2-hydroxyethyl)pyridone-2-hydrazone (I) was by then reaction of 2-chloropyridine with chloroethanol in EtOAc, followed by the reaction with 2-acetylhydrazine and hydrolysis with 6N HCl. A compn. was prepd. contg. I 10-2 and 2-methyphenol 10-2 mole, water qs to 100 g and the usual surfactants.

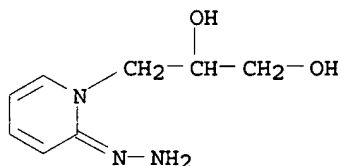
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642083-04-3 642083-05-4 642083-06-5

642083-07-6 642083-08-7 642083-09-8  
 642083-10-1 642083-11-2 642083-12-3  
 642083-13-4 642083-14-5 642083-15-6  
 642083-16-7 642083-17-8 642083-18-9  
 642083-19-0

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hair dye compns. contg. 6-membered  
 heterocycles)

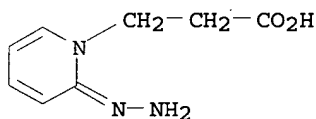
RN 642083-01-0 HCAPLUS

CN 2(1H)-Pyridinone, 1-(2,3-dihydroxypropyl)-, hydrazone (9CI) (CA  
 INDEX NAME)



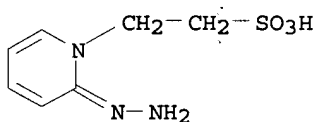
RN 642083-02-1 HCAPLUS

CN 1(2H)-Pyridinepropanoic acid, 2-hydrazono- (9CI) (CA INDEX NAME)



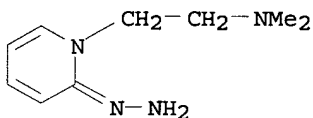
RN 642083-03-2 HCAPLUS

CN 1(2H)-Pyridineethanesulfonic acid, 2-hydrazono- (9CI) (CA INDEX  
 NAME)



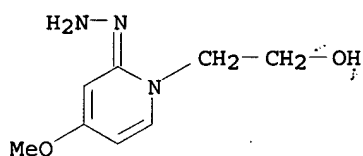
RN 642083-04-3 HCAPLUS

CN 2(1H)-Pyridinone, 1-[2-(dimethylamino)ethyl]-, hydrazone (9CI) (CA  
 INDEX NAME)

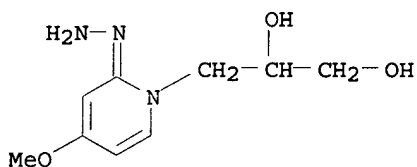


RN 642083-05-4 HCAPLUS

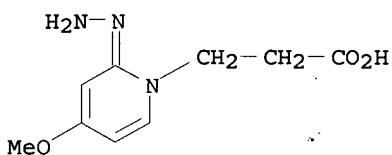
CN 2(1H)-Pyridinone, 1-(2-hydroxyethyl)-4-methoxy-, hydrazone (9CI)  
 (CA INDEX NAME)



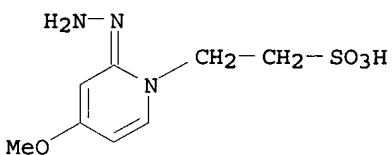
RN 642083-06-5 HCAPLUS  
 CN 2(1H)-Pyridinone, 1-(2,3-dihydroxypropyl)-4-methoxy-, hydrazone  
 (9CI) (CA INDEX NAME)



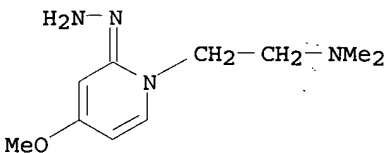
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 CN 1(2H)-Pyridinepropanoic acid, 2-hydrazono-4-methoxy- (9CI) (CA  
 INDEX NAME)



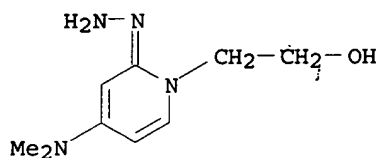
RN 642083-08-7 HCAPLUS  
 CN 1(2H)-Pyridineethanesulfonic acid, 2-hydrazono-4-methoxy- (9CI) (CA  
 INDEX NAME)



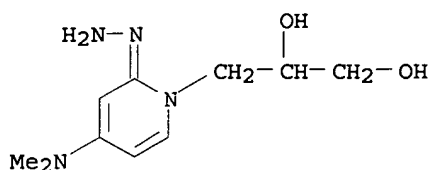
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 CN 2(1H)-Pyridinone, 1-[2-(dimethylamino)ethyl]-4-methoxy-, hydrazone  
 (9CI) (CA INDEX NAME)



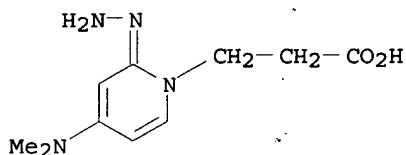
RN 642083-10-1 HCAPLUS  
 CN 2(1H)-Pyridinone, 4-(dimethylamino)-1-(2-hydroxyethyl)-, hydrazone  
 (9CI) (CA INDEX NAME)



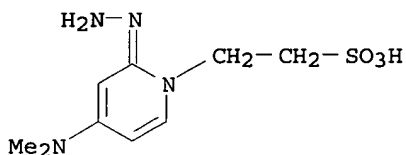
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 CN 2(1H)-Pyridinone, 1-(2,3-dihydroxypropyl)-4-(dimethylamino)-, hydrazone (9CI) (CA INDEX NAME)



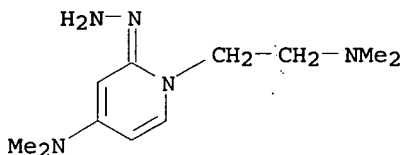
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 CN 1(2H)-Pyridinepropanoic acid, 4-(dimethylamino)-2-hydrazono- (9CI) (CA INDEX NAME)



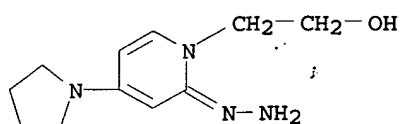
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 CN 1(2H)-Pyridineethanesulfonic acid, 4-(dimethylamino)-2-hydrazono- (9CI) (CA INDEX NAME)



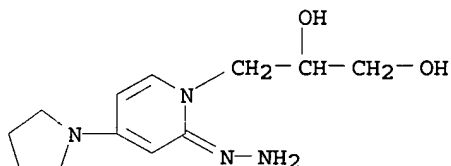
RN 642083-14-5 HCAPLUS  
 CN 2(1H)-Pyridinone, 4-(dimethylamino)-1-[2-(dimethylamino)ethyl]-, hydrazone (9CI) (CA INDEX NAME)



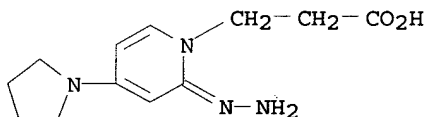
RN 642083-15-6 HCAPLUS  
 CN 2(1H)-Pyridinone, 1-(2-hydroxyethyl)-4-(1-pyrrolidinyl)-, hydrazone (9CI) (CA INDEX NAME)



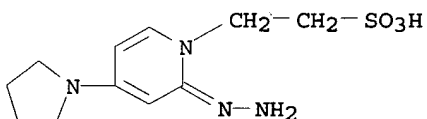
RN 642083-16-7 HCAPLUS  
 CN 2(1H)-Pyridinone, 1-(2,3-dihydroxypropyl)-4-(1-pyrrolidinyl)-,  
 hydrazone (9CI) (CA INDEX NAME)



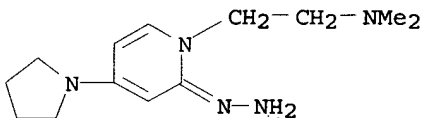
RN 642083-17-8 HCAPLUS  
 CN 1(2H)-Pyridinepropanoic acid, 2-hydrazono-4-(1-pyrrolidinyl)- (9CI)  
 (CA INDEX NAME)



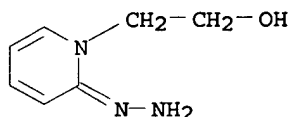
RN 642083-18-9 HCAPLUS  
 CN 1(2H)-Pyridineethanesulfonic acid, 2-hydrazono-4-(1-pyrrolidinyl)-  
 (9CI) (CA INDEX NAME)



RN 642083-19-0 HCAPLUS  
 CN 2(1H)-Pyridinone, 1-[2-(dimethylamino)ethyl]-4-(1-pyrrolidinyl)-,  
 hydrazone (9CI) (CA INDEX NAME)



IT 642080-38-4P  
 RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL  
 (Biological study); PREP (Preparation); USES (Uses)  
 (hair dye compns. contg. 6-membered  
 heterocycles)  
 RN 642080-38-4 HCAPLUS  
 CN 2(1H)-Pyridinone, 1-(2-hydroxyethyl)-, hydrazone (9CI) (CA INDEX  
 NAME)



IC ICM A61K007-13  
ICS C07D213-76

CC 62-3 (Essential Oils and Cosmetics)  
Section cross-reference(s): 2, 27

ST **hair dye** heterocycle; hydrazone hydroxyethyl  
pyridone **hair dye** prepn

IT Amines, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(diamines, arom., phenylalkylene; **hair dye**  
compns. contg. 6-membered heterocycles)

IT **Dyes**  
(direct; **hair dye** compns. contg. 6-membered  
heterocycles)

IT **Hair** preparations  
(**dyes**, oxidative; **hair dye** compns.  
contg. 6-membered heterocycles)

IT **Hair** preparations  
(**dyes**; **hair dye** compns. contg.  
6-membered heterocycles)

IT **Hair**  
Human  
Oxidizing agents  
(**hair dye** compns. contg. 6-membered  
heterocycles)

IT 95-55-6D, derivs. 106-50-3D, 1,4-Benzenediamine, derivs.  
108-45-2D, 1,3-Benzenediamine, derivs. 108-46-3D, 1,3-Benzenediol,  
derivs. 123-30-8D, derivs. 591-27-5D, derivs. 2835-95-2  
642083-01-0 642083-02-1 642083-03-2  
642083-04-3 642083-05-4 642083-06-5  
642083-07-6 642083-08-7 642083-09-8  
642083-10-1 642083-11-2 642083-12-3  
642083-13-4 642083-14-5 642083-15-6  
642083-16-7 642083-17-8 642083-18-9  
642083-19-0  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(**hair dye** compns. contg. 6-membered  
heterocycles)

IT 642080-38-4P  
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL  
(Biological study); PREP (Preparation); USES (Uses)  
(**hair dye** compns. contg. 6-membered  
heterocycles)

IT 107-07-3, reactions 109-09-1 1068-57-1  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(**hair dye** compns. contg. 6-membered  
heterocycles)

IT 642082-99-3P 642083-00-9P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);  
RACT (Reactant or reagent)  
(**hair dye** compns. contg. 6-membered  
heterocycles)

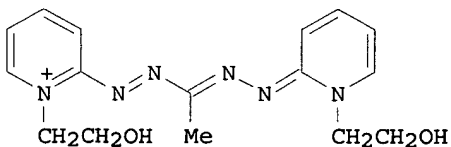
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR  
THIS RECORD. ALL CITATIONS AVAILABLE IN  
THE RE FORMAT

L29 ANSWER 8 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 2004:17473 HCAPLUS

Ross Shipe EIC 1700 Remsen 4B31 571/272-6018

DOCUMENT NUMBER: 140:78506  
 TITLE: Tetraazapentamethine derivatives and their  
 manufacture and application for dyeing  
 keratinous fibers  
 INVENTOR(S): Burgaud, Herve; David, Herve; Pereira, Rui;  
 Belcour-Castro, Beatrice  
 PATENT ASSIGNEE(S): L'Oreal, Fr.  
 SOURCE: Eur. Pat. Appl., 49 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1378544	A2	20040107	EP 2003-291678	200307 04
EP 1378544	A3	20040225		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2841901	A1	20040109	FR 2002-8494	200207 05
FR 2841901	B1	20060203		
WO 2004005407	A2	20040115	WO 2003-FR2090	200307 04
WO 2004005407	A3	20040422		
W: JP, US				
JP 2005532444	T2	20051027	JP 2004-518878	200307 04
US 2005028300	A1	20050210	US 2004-489855	200409 24
PRIORITY APPLN. INFO.:			FR 2002-8494	A 200207 05
			WO 2003-FR2090	W 200307 04
OTHER SOURCE(S):	MARPAT	140:78506		
GI				

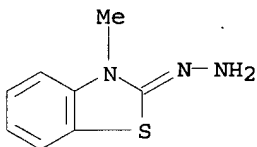


AB Tetraazapentamethine derivs. having 2 heterocyclic rings such as I are manufd. for dyeing of keratinous fibers with colors that are as strong as colors formed by oxidative dyeing using dye precursors and that are completely removable by treatment of the colored fibers with a reducing agent. I is manuf. by reaction of EtOH with 1-(2-hydroxyethyl)-2-pyridone hydrazone in the presence of alc. oxidase and KH<sub>2</sub>PO<sub>4</sub>/K<sub>2</sub>PO<sub>4</sub> at pH 7.

IT 1128-67-2 28219-35-4, 1-Methyl-2(1H)-pyridinone hydrazone 81067-78-9, 1,3-Dimethyl-2-imidazolidone hydrazone 461382-94-5, (6-Methoxy-2-methyl-4H-pyridazin-3-ylidene)hydrazine 642080-38-4, 1-(2-Hydroxyethyl)-2(1H)-pyridinone hydrazone 642080-39-5, 4-Methoxy-1-methyl-2(1H)-pyridinone hydrazone 642093-79-6, (2-Methyl-6-pyrrolidin-1-yl-4H-pyridazin-3-ylidene)hydrazine 642093-95-6, 1-(2-Hydroxyethyl)-2(1H)-pyridinone hydrazone hydrobromide  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (precursor; tetraazapentamethine derivs. of heterocyclic compds. for dyeing keratinous fibers)

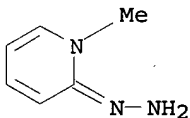
RN 1128-67-2 HCAPLUS

CN 2(3H)-Benzothiazolone, 3-methyl-, hydrazone (9CI) (CA INDEX NAME)



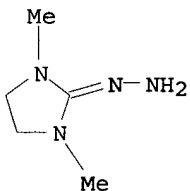
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CN 2(1H)-Pyridinone, 1-methyl-, hydrazone (9CI) (CA INDEX NAME)



RN 81067-78-9 HCAPLUS

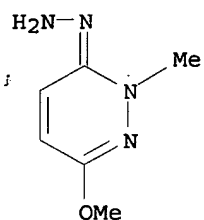
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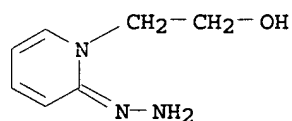
RN 461382-94-5 HCAPLUS

CN 3(2H)-Pyridazinone, 6-methoxy-2-methyl-, hydrazone (9CI) (CA INDEX NAME)

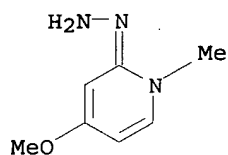




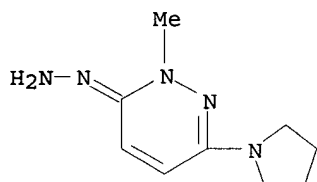
RN 642080-38-4 HCAPLUS  
 CN 2(1H)-Pyridinone, 1-(2-hydroxyethyl)-, hydrazone (9CI) (CA INDEX NAME)



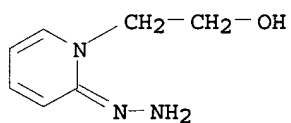
RN 642080-39-5 HCAPLUS  
 CN 2(1H)-Pyridinone, 4-methoxy-1-methyl-, hydrazone (9CI) (CA INDEX NAME)



RN 642093-79-6 HCAPLUS  
 CN 3(2H)-Pyridazinone, 2-methyl-6-(1-pyrrolidinyl)-, hydrazone (9CI) (CA INDEX NAME)



RN 642093-95-6 HCAPLUS  
 CN 2(1H)-Pyridinone, 1-(2-hydroxyethyl)-, hydrazone, monohydrobromide (9CI) (CA INDEX NAME)



● HBr

- IC ICM C09B050-10  
ICS C07D213-77; C07D233-88; C07D237-22; C07D237-20; C07D401-14;  
C07D213-87
- CC 41-3 (Dyes, Organic Pigments, Fluorescent Brighteners, and  
Photographic Sensitizers)  
Section cross-reference(s): 27, 28, 62
- ST heterocyclic tetraazapentamethine deriv **dye**  
**keratinous fiber; hair dye**  
hydroxyethylpyridinylene methylformazanohydroxyethylpyridinium  
chloride manuf
- IT Bleaching  
(decoloration of **keratinous** fibers **dyed** by  
tetraazapentamethine derivs. of heterocyclic compds.)
- IT Dyes  
(indamine; tetraazapentamethine derivs. of heterocyclic compds.  
for **dyeing keratinous** fibers)
- IT Alcohols, reactions  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(precursors; decoloration of **keratinous** fibers  
**dyed** by tetraazapentamethine derivs. of heterocyclic  
compds.)
- IT Heterocyclic compounds  
Hydrazones  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(precursors; tetraazapentamethine derivs. of heterocyclic compds.  
for **dyeing keratinous** fibers)
- IT Hair  
(tetraazapentamethine derivs. of heterocyclic compds. for  
**dyeing keratinous** fibers)
- IT 642093-93-4P  
RL: IMF (Industrial manufacture); PREP (Preparation)  
(precursor; tetraazapentamethine derivs. of heterocyclic compds.  
for **dyeing keratinous** fibers)
- IT 642093-78-5P 642093-92-3P 642093-94-5P  
RL: IMF (Industrial manufacture); RCT (Reactant); PREP  
(Preparation); RACT (Reactant or reagent)  
(precursor; tetraazapentamethine derivs. of heterocyclic compds.  
for **dyeing keratinous** fibers)
- IT 109653-96-5P 642080-41-9P  
RL: IMF (Industrial manufacture); TEM (Technical or engineered  
material use); PREP (Preparation); USES (Uses)  
(precursor; tetraazapentamethine derivs. of heterocyclic compds.  
for **dyeing keratinous** fibers)
- IT 64-17-5, Ethanol, reactions 67-56-1, Methanol, reactions  
100-51-6, Benzyl alcohol, reactions 100-52-7, Benzaldehyde,  
reactions 122-51-0, Triethyl orthoformate 872-85-5,  
4-Pyridincarboxaldehyde 1128-67-2 28219-35-4,  
1-Methyl-2(1H)-pyridinone hydrazone 81067-78-9,  
1,3-Dimethyl-2-imidazolidone hydrazone 461382-94-5,  
(6-Methoxy-2-methyl-4H-pyridazin-3-ylidene)hydrazine  
642080-38-4, 1-(2-Hydroxyethyl)-2(1H)-pyridinone hydrazone  
642080-39-5, 4-Methoxy-1-methyl-2(1H)-pyridinone hydrazone  
642093-79-6, (2-Methyl-6-pyrrolidin-1-yl-4H-pyridazin-3-  
ylidene)hydrazine 642093-80-9 642093-95-6,  
1-(2-Hydroxyethyl)-2(1H)-pyridinone hydrazone hydrobromide  
642093-96-7  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(precursor; tetraazapentamethine derivs. of heterocyclic compds.  
for **dyeing keratinous** fibers)
- IT 642093-97-8P  
RL: IMF (Industrial manufacture); RCT (Reactant); TEM (Technical or  
engineered material use); PREP (Preparation); RACT (Reactant or  
reagent); USES (Uses)  
(tetraazapentamethine derivs. of heterocyclic compds. for  
**dyeing keratinous** fibers)
- IT 99077-96-0P 99870-92-5P 642093-81-0P 642093-82-1P

642093-83-2P	642093-84-3P	642093-85-4P	642093-86-5P
642093-87-6P	642093-88-7P	642093-89-8P	642093-90-1P
642093-91-2P	642093-99-0P	642094-00-6P	642094-01-7P
642094-02-8P	642094-03-9P	642094-04-0P	642094-05-1P
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642095-02-1P	642095-03-2P	642095-04-3P	642095-05-4P
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642096-15-9P	642096-16-0P	642096-17-1P	

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(tetraazapentamethine derivs. of heterocyclic compds. for dyeing keratinous fibers)

L29 ANSWER 9 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:815250 HCAPLUS

DOCUMENT NUMBER: 139:311937

TITLE: Hair dye compositions

Ross Shipe EIC 1700 Remsen 4B31 571/272-6018

INVENTOR(S): containing carboxylic acid  
 PATENT ASSIGNEE(S): Quinn, Francis Xavier; Giustiniani, Pascal  
 L'Oreal, Fr.  
 SOURCE: Eur. Pat. Appl., 38 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

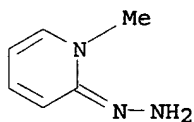
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1352633	A1	20031015	EP 2003-290750	20030325
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EP 1352633	B1	20060308		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2838338	A1	20031017	FR 2002-4529	20020411
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FR 2838338	B1	20040528		
AT 319411	E	20060315	AT 2003-290750	20030325
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JP 2003300847	A2	20031021	JP 2003-107063	20030410
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BR 2003001299	A	20040817	BR 2003-1299	20030410
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US 2003233713	A1	20031225	US 2003-411328	20030411
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PRIORITY APPLN. INFO.:			FR 2002-4529	A 20020411
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			US 2002-375428P	P 20020426

AB Hair dye compns. contain carboxylic acids complexed with a direct dye, and an alk. agent. The compns. are extremely useful for oxidative dye compns. Water is added to form the complex, and the complex was dried. To the dry material was added H2O2, and the dye powder was stable in the soln. of H2O2. The above suspension was added to p-toluenediamine 0.2, resorcinol 0.1, p-aminophenol 0.5, 2-methyl-5- $\beta$ -hydroxyethylaminophenol 0.35, 2-methyl-5-aminophenol 0.3, oleic acid 2.7, monoethanolamine 0.6, cetylstearyl alc. 16, ethoxylated oleic cetyl alc. 3.5, sequestrant 0.8, 20.5% NH3 0.8, ammonium thiolactate 4.8, perfume qs and water qs to 100 g.

IT 612092-47-4D, complexes with carboxylic acids  
 612092-48-5D, complexes with carboxylic acids  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hair dye compns. contg. carboxylic acid)

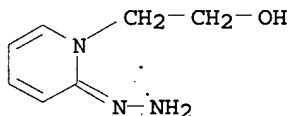
RN 612092-47-4 HCAPLUS

CN 2(1H)-Pyridinone, 1-methyl-, hydrazone, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

RN 612092-48-5 HCAPLUS  
CN 2(1H)-Pyridinone, 1-(2-hydroxyethyl)-, hydrazone, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

IC ICM A61K007-13  
CC 62-3 (Essential Oils and Cosmetics)  
ST **hair dye** carboxylic acid cationic  
IT **Azo dyes**  
(cationic derivs.; **hair dye** compns. contg. carboxylic acid)  
IT Amines, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(diamines, arom.; **hair dye** compns. contg. carboxylic acid)  
IT **Dyes**  
(direct; **hair dye** compns. contg. carboxylic acid)  
IT **Hair preparations**  
(**dyes**, oxidative; **hair dye** compns. contg. carboxylic acid)  
IT **Hair preparations**  
(**dyes**; **hair dye** compns. contg. carboxylic acid)  
IT Human  
(**hair dye** compns. contg. carboxylic acid)  
IT Bisphenols  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(**hair dye** compns. contg. carboxylic acid)  
IT 65-85-0D, Benzoic acid, complexes with direct **dyes**  
81-25-4D, Cholic acid, complexes with direct **dyes**  
83-44-3D, DeoxyCholic acid, complexes with direct **dyes**  
95-55-6D, o-Aminophenol, derivs. 95-70-5, p-Toluenediamine  
106-50-3D, p-Phenylenediamine, derivs. 108-45-2D, m-Phenylenediamine, derivs. 123-30-8D, p-Aminophenol, derivs.  
474-25-9D, Chenodeoxycholic acid, complexes with direct **dyes**  
591-27-5D, m-Aminophenol, derivs. 621-82-9D, Cinnamic acid, complexes with direct **dyes** 2835-95-2, 2-Methyl-5-aminophenol 25620-59-1D, Aminoanthraquinone, cationic derivs. 30569-52-9D, complexes with carboxylic acids

46921-92-0D, complexes with carboxylic acids 55302-96-0  
 77061-58-6D, complexes with carboxylic acids 97404-02-9D,  
 complexes with carboxylic acids 178822-03-2D, complexes with  
 carboxylic acids 375348-42-8D, complexes with carboxylic acids  
 612092-47-4D, complexes with carboxylic acids  
 612092-48-5D, complexes with carboxylic acids

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(hair dye compns. contg. carboxylic acid)

IT 7722-84-1, Hydrogen peroxide, biological studies

RL: COS (Cosmetic use); RCT (Reactant); BIOL (Biological study);

RACT (Reactant or reagent); USES (Uses)

(hair dye compns. contg. carboxylic acid)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR  
 THIS RECORD. ALL CITATIONS AVAILABLE IN  
 THE RE FORMAT

L29 ANSWER 10 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:372764 HCAPLUS

DOCUMENT NUMBER: 138:373844

TITLE: Hair dyes containing  
 derivatives of 2-benzothiazolinone-hydrazone and  
 p-quinone

INVENTOR(S): Pasquier, Cecile; Umbricht, Gisela;  
 Buclin-Charriere, Veronique; Oberson, Sylviane;  
 Braun, Hans-Juergen

PATENT ASSIGNEE(S): Wella AG, Germany

SOURCE: Ger. Offen., 8 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10155907	A1	20030515	DE 2001-10155907	20011114
WO 2003042199	A1	20030522	WO 2002-EP9381	20020822
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
BR 2002006394	A	20040203	BR 2002-6394	20020822
EP 1448540	A1	20040825	EP 2002-772186	20020822
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK JP 2005509034 T2 20050407 JP 2003-544035				

Ross Shipe EIC 1700 Remsen 4B31 571/272-6018

200208  
22  
US 2004060124 A1 20040401 US 2003-250847  
200307  
14  
US 7070625 B2 20060704  
PRIORITY APPLN. INFO.: DE 2001-10155907 A  
200111  
14  
WO 2002-EP9381 W  
200208  
22

## OTHER SOURCE(S): MARPAT 138:373844

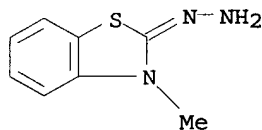
AB The invention concerns **hair dyes** that contain  
derivs. of 2-benzothiazolinone-hydrazone and p-quinone; other dyes  
can be added to the formulations. Thus a **hair dye**  
included (g): Plantaren 2000 4.00; EDTA disodium salt hydrate 0.20;  
ethanol 5.00; 3-methyl-2-benzothiazolinone-hydrazone hydrochloride  
hydrate 0.59; 4,5-dimethoxy-1,2-benzoquinone 0.41; ethanol 20; water  
to 100.

IT 4338-98-1, 3-Methyl-2-benzothiazolinone-hydrazone  
hydrochloride 524684-56-8 524684-57-9  
524684-58-0

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(**hair dyes** contg. derivs. of  
2-benzothiazolinone-hydrazone and p-quinone)

RN 4338-98-1 HCAPLUS

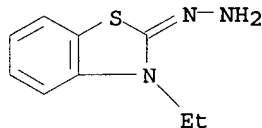
CN 2(3H)-Benzothiazolone, 3-methyl-, hydrazone, monohydrochloride (9CI)  
(CA INDEX NAME)



● HCl

RN 524684-56-8 HCAPLUS

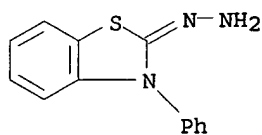
CN 2(3H)-Benzothiazolone, 3-ethyl-, hydrazone, hydrochloride (9CI) (CA  
INDEX NAME)



●x HCl

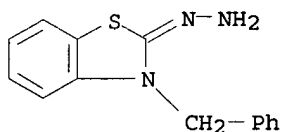
RN 524684-57-9 HCAPLUS

CN 2(3H)-Benzothiazolone, 3-phenyl-, hydrazone, hydrochloride (9CI)  
(CA INDEX NAME)



●x HCl

RN 524684-58-0 HCAPLUS  
 CN 2(3H)-Benzothiazolone, 3-(phenylmethyl)-, hydrazone, hydrochloride  
 (9CI) (CA INDEX NAME)



●x HCl

IC ICM A61K007-13  
 CC 62-4 (Essential Oils and Cosmetics)  
 ST hair dye benzothiazolinone hydrazone para  
 quinone deriv  
 IT Hair preparations  
 (dyes; hair dyes contg. derivs. of  
 2-benzothiazolinone-hydrazone and p-quinone)  
 IT pH  
 (hair dyes contg. derivs. of  
 2-benzothiazolinone-hydrazone and p-quinone)  
 IT 54-06-8 84-58-2, 2,3-Dichloro-5,6-dicyano-1,4-benzoquinone  
 85-23-4 87-88-7, 2,5-Dichloro-3,6-dihydroxy-1,4-benzoquinone  
 106-51-4D, p-Quinone, derivs. 118-75-2, 2,3,5,6-Tetrachloro-1,4-  
 benzoquinone, biological studies 137-18-8, 2,5-Dimethyl-1,4-  
 benzoquinone 319-89-1, 2,3,5,6-Tetrahydroxy-1,4-benzoquinone  
 363-03-1, 2-Phenyl-1,4-benzoquinone 367-28-2, 2-Fluoro-1,4-  
 benzoquinone 475-38-7, 5,8-Dihydroxy-1,4-naphthalene-dione  
 484-89-9 488-48-2, 2,3,5,6-Tetrabromo-1,4-benzoquinone 490-91-5  
 527-17-3, 2,3,5,6-Tetramethyl-1,4-benzoquinone 527-21-9,  
 2,3,5,6-Tetrafluoro-1,4-benzoquinone 527-61-7,  
 2,6-Dimethyl-1,4-benzoquinone 530-55-2, 2,6-Dimethoxy-1,4-  
 benzoquinone 548-59-4, 2,5-Dihydroxy-3,6-diphenyl-1,4-benzoquinone  
 553-97-9, 2-Methyl-1,4-benzoquinone 561-20-6, Cacotheline  
 605-94-7, 2,3-Dimethoxy-5-methyl-1,4-benzoquinone 614-13-1,  
 2-Methoxy-5-methyl-1,4-benzoquinone 615-21-4D,  
 2-Benzothiazolinone-hydrazone, derivs. 615-93-0,  
 2,5-Dichloro-1,4-benzoquinone 615-94-1, 2,5-Dihydroxy-1,4-  
 benzoquinone 695-99-8, 2-Chloro-1,4-benzoquinone 697-91-6,  
 2,6-Dichloro-1,4-benzoquinone 719-22-2, 2,6-Di-tert-butyl-1,4-  
 benzoquinone 844-51-9, 2,5-Diphenyl-1,4-benzoquinone 1123-64-4,  
 2-Chloro-6-methyl-1,4-benzoquinone 1633-14-3, 2,5-Dibromo-1,4-  
 benzoquinone 2207-58-1, 2,5-Dihydroxy-3-methyl-1,4-benzoquinone  
 2435-53-2 2460-77-7, 2,5-Di-tert-butyl-1,4-benzoquinone  
 2880-58-2, 2-Methoxy-1,4-benzoquinone 3117-03-1,  
 2,5-Dimethoxy-1,4-benzoquinone 3383-21-9 3602-55-9,  
 2-tert-Butyl-1,4-benzoquinone 3908-48-3 3958-82-5,  
 2-Bromo-1,4-benzoquinone 4008-05-3 4338-98-1,  
 3-Methyl-2-benzothiazolinone-hydrazone hydrochloride 4622-04-2



4655-79-2 5557-53-9 7461-66-7 13070-25-2, 2-Bromo-5-methyl-1,4-benzoquinone 18916-57-9 20342-64-7, 1H-Indole-4,7-dione 20958-05-8 21086-65-7, 4,5-Dimethoxy-1,2-benzoquinone 21505-19-1, 1,3-Benzodioxole-5,6-dione 22895-04-1 28293-39-2, 2,5-Dibromo-3,6-diphenyl-1,4-benzoquinone 29096-93-3 31679-92-2, 2-Amino-5-methyl-1,4-benzoquinone 31776-35-9, 2,6-Dimethoxy-3-methyl-1,4-benzoquinone 46010-98-4, 2,5-Dichloro-3,6-dimethyl-1,4-benzoquinone 50827-57-1, 2-Hydroxymethyl-6-methoxy-1,4-benzoquinone 53684-60-9, 1-Naphthalenesulfonic acid, 3,4-dihydro-3,4-dioxo-, ammonium salt 71849-97-3  
 524684-56-8 524684-57-9 524684-58-0  
 524684-59-1

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hair dyes contg. derivs. of  
 2-benzothiazolinone-hydrazone and p-quinone)

L29 ANSWER 11 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:736076 HCAPLUS

DOCUMENT NUMBER: 137:252685

TITLE: Novel dyeing compositions for the dyeing  
 of keratin fibers comprising  
 5-membered heterocyclic hydrazone compounds as  
 an oxidation base

INVENTOR(S): Vidal, Laurent; David, Herve

PATENT ASSIGNEE(S): L'Oreal, Fr.

SOURCE: PCT Int. Appl., 30 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002074268	A2	20020926	WO 2002-FR857	200203 11
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WO 2002074268	A3	20040122		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
FR 2822062	A1	20020920	FR 2001-3538	200103 15
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FR 2822062	B1	20051202		
AU 2002253222	A1	20021003	AU 2002-253222	200203 11
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PRIORITY APPLN. INFO.:			FR 2001-3538	A
				200103 15
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			WO 2002-FR857	W
				200203 11

OTHER SOURCE(S): MARPAT 137:252685

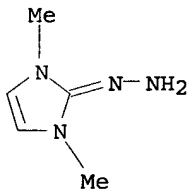
AB The invention relates to a novel compn. that is used for the oxidn. dyeing of keratin fibers, in particular human hair, comprising at least one 5-membered heterocyclic hydrazone-type compd. as an oxidn. base and at least one coupling agent. The invention also relates to the dyeing method using same and to novel 5-membered heterocyclic hydrazone compds. Thus, (1,3-dimethyl-1,3-dihydro-imidazol-2-ylidene)-hydrazone (I) was prepd. by the reaction of hydrazine hydrate and 2-methylsufonyl-1,3-dimethyl-imidazolinium methosulfate (prepn. given). Formulation of a hair dye contg. I 10-3 mole, and water and excipients q.s. 100 g is disclosed.

IT 461388-49-8P

RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(hair dye compns. comprising heterocyclic hydrazone compds. as oxidn. base)

RN 461388-49-8 HCAPLUS

CN 2H-Imidazol-2-one, 1,3-dihydro-1,3-dimethyl-, hydrazone (9CI) (CA INDEX NAME)



IC ICM A61K007-13

ICS C09B026-02; C07D233-88

CC 62-3 (Essential Oils and Cosmetics)

Section cross-reference(s): 27

ST hair dye heterocyclic hydrazone oxidn base

IT Hair preparations

(dyes, oxidative; hair dye compns. comprising heterocyclic hydrazone compds. as oxidn. base)

IT 461388-49-8P

RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(hair dye compns. comprising heterocyclic hydrazone compds. as oxidn. base)

IT 74-88-4, Methyl iodide, reactions 77-78-1, Dimethyl sulfate 302-01-2, Hydrazine, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)  
(hair dye compns. comprising heterocyclic hydrazone compds. as oxidn. base)

IT 60-56-0P 14486-52-3P 71691-71-9P 461388-50-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(hair dye compns. comprising heterocyclic hydrazone compds. as oxidn. base)

L29 ANSWER 12 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:736075 HCAPLUS

DOCUMENT NUMBER: 137:252684

TITLE: Novel dyeing compositions for the dyeing of keratin fibers comprising 6-membered heterocyclic hydrazone compounds as an oxidation base

INVENTOR(S): Vidal, Laurent; David, Herve

PATENT ASSIGNEE(S): L'Oreal, Fr.

SOURCE: PCT Int. Appl., 37 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002074267	A1	20020926	WO 2002-FR856	20020311

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 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

FR 2822063	A1	20020920	FR 2001-3539	20010315
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 FR 2822063 B1 20051202  
 PRIORITY APPLN. INFO.: FR 2001-3539 A 20010315

OTHER SOURCE(S): MARPAT 137:252684

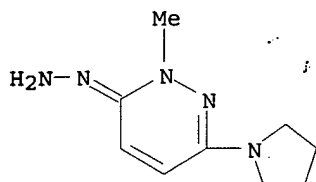
AB The invention relates to a novel compn. that is used for the oxidn. dyeing of keratin fibers, in particular human hair, comprising at least one particular hydrazone-type compd. as an oxidn. base and at least one coupling agent. The invention also relates to the method using same and to novel 6-membered heterocyclic hydrazone compds. Thus, (6-methoxy-2-methyl-2H-pyridazin-3-ylidene)-hydrazone dihydrochloride (I) was prepd. by the reaction of N-acetyl-(6-methoxy-2-methyl-2H-pyridazin-3-ylidene)-hydrazone (prepn. given) with hydrochloric acid. Formulation of a hair dye contg. I 5x10<sup>-3</sup>, 3-amino-2-chloro-6-methyl-phenol hydrochloride 5x10<sup>-3</sup> mole, water and excipients q.s. 100 g is disclosed.

IT 461382-96-7 461382-97-8

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hair dye compns. comprising heterocyclic hydrazone compds. as oxidn. base)

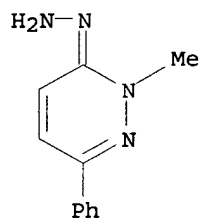
RN 461382-96-7 HCAPLUS

CN 3(2H)-Pyridazinone, 2-methyl-6-(1-pyrrolidinyl)-, hydrazone, dihydrochloride (9CI) (CA INDEX NAME)



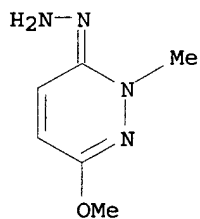
●2 HCl

RN 461382-97-8 HCAPLUS  
 CN 3(2H)-Pyridazinone, 2-methyl-6-phenyl-, hydrazone, dihydrochloride  
 (9CI) (CA INDEX NAME)



●2 HCl

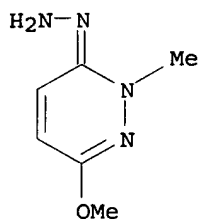
IT 461382-95-6P  
 RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL  
 (Biological study); PREP (Preparation); USES (Uses)  
 (hair dye compns. comprising heterocyclic  
 hydrazone compds. as oxidn. base)  
 RN 461382-95-6 HCAPLUS  
 CN 3(2H)-Pyridazinone, 6-methoxy-2-methyl-, hydrazone, dihydrochloride  
 (9CI) (CA INDEX NAME)



●2 HCl

IT 461382-94-5P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);  
 RACT (Reactant or reagent)  
 (hair dye compns. comprising heterocyclic  
 hydrazone compds. as oxidn. base)  
 RN 461382-94-5 HCAPLUS

CN 3(2H)-Pyridazinone, 6-methoxy-2-methyl-, hydrazone (9CI) (CA INDEX NAME)



IC ICM A61K007-13  
 CC 62-3 (Essential Oils and Cosmetics)  
 Section cross-reference(s): 27  
 ST **hair dye** heterocyclic hydrazone oxidn base  
 IT **Hair** preparations  
 (dyes, oxidative; **hair dye** compns.  
 comprising heterocyclic hydrazone compds. as oxidn. base)  
 IT 461382-96-7 461382-97-8  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (**hair dye** compns. comprising heterocyclic  
 hydrazone compds. as oxidn. base)  
 IT 461382-90-1P 461382-95-6P  
 RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL  
 (Biological study); PREP (Preparation); USES (Uses)  
 (**hair dye** compns. comprising heterocyclic  
 hydrazone compds. as oxidn. base)  
 IT 77-78-1, Dimethyl sulfate 1068-57-1, Acetylhydrazine  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (**hair dye** compns. comprising heterocyclic  
 hydrazone compds. as oxidn. base)  
 IT 1722-10-7P, 3-Chloro-6-methoxypyridazine 461382-92-3P  
 461382-93-4P 461382-94-5P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);  
 RACT (Reactant or reagent)  
 (**hair dye** compns. comprising heterocyclic  
 hydrazone compds. as oxidn. base)  
 REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR  
 THIS RECORD. ALL CITATIONS AVAILABLE IN  
 THE RE FORMAT

L29 ANSWER 13 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2002:220343 HCAPLUS  
 DOCUMENT NUMBER: 136:267891  
 TITLE: **Hair dyes** containing  
 benzoxadiazole, benzothiadiazole and  
 benzo-selenadiazole derivatives  
 INVENTOR(S): Pasquier, Cecile; Charriere, Veronique; Braun,  
 Hans-Juergen  
 PATENT ASSIGNEE(S): Wella Aktiengesellschaft, Germany  
 SOURCE: PCT Int. Appl., 44 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002022093	A1	20020321	WO 2001-EP7494	20010629

Ross Shipe EIC 1700 Remsen 4B31 571/272-6018

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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

DE 10045600                      A1            20020404            DE 2000-10045600                      200009  
15

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AU 2001081924                      A5            20020326            AU 2001-81924                      200106  
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BR 2001007215                      A            20020709            BR 2001-7215                      200106  
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EP 1328244                      A1            20030723            EP 2001-960429                      200106  
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

JP 2004508389                      T2            20040318            JP 2002-526346                      200106  
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US 2003070239                      A1            20030417            US 2002-110116                      200204  
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US 6773463                      B2            20040810                      DE 2000-10045600                      A            200009  
15

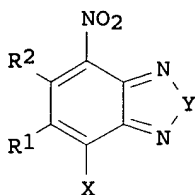
PRIORITY APPLN. INFO.:

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WO 2001-EP7494                      W            200106  
29

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GI



AB The invention relates to an agent for coloring fibers (A) which is produced by mixing two components (A1) and (A2) and is characterized in that the component (A1) contains at least one compd. of formula (I), wherein X represents a halogen atom, a methoxy group or an ethoxy group; Y represents an oxygen atom, a sulfuric atom or a selenium atom; and R1 and R2 can be identical or different and

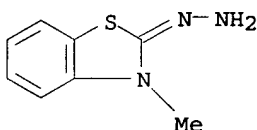
represent independently from each other hydrogen, a halogen atom, an (C1-C4) alkyl group, an (C1-C4) alkyl group substituted by a halogen atom, an (C1-C4) alkoxy group, a nitro group, an acetamido group or a NRaRb group, whereby the radicals Ra and Rb can be identical or different and represent independently from each other hydrogen, an (C1-C4) alkyl group, an optionally substituted carbocycle or an (C1-C4) alkane carbonyl group, or Ra and Rb form, together with the nitrogen atom, a heterocyclic (C3-C6) group; and the component (A2) contains at least one compd. from the group comprising amines, aminonitrobenzenes and phenoles. The invention also relates to a method for coloring hair by using the agent and a multiple component kit. Thus a hair dye was prepd. Component A1 contained (g): 7-chloro-4-nitro-2,1,3-benzoxadiazole 0.5; ethanol 5.0; decylpolyglycoside aq. soln. (Plantaren 2000) 4.0; EDTA sodium salt hydrate 0.2; water to 100. Components A2 was 0.153 g ethanol amine.

IT 4338-98-1

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(hair dyes contg. benzoxadiazole,  
benzothiadiazole and benzo-selenadiazole derivs.)

RN 4338-98-1 HCAPLUS

CN 2(3H)-Benzothiazolone, 3-methyl-, hydrazone, monohydrochloride (9CI)  
(CA INDEX NAME)



● HCl

IC ICM A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

Section cross-reference(s): 41

ST hair dye benzoxadiazole benzothiadiazole  
benzoselenadiazole deriv amine phenol

IT Hair preparations

(dyes; hair dyes contg.

benzoxadiazole, benzothiadiazole and benzo-selenadiazole derivs.)

IT 95-55-6, 2-Aminophenol 99-98-9, 4-Dimethylaminoaniline 106-44-5,  
4-Methylphenol, biological studies 106-50-3, 1,4-Diaminobenzene,  
biological studies 108-45-2, 1,3-Diaminobenzene, biological  
studies 108-46-3, 1,3-Dihydroxybenzene, biological studies  
108-95-2, Phenol, biological studies 123-30-8, 4-Aminophenol  
123-31-9, Hydroquinone, biological studies 141-43-5, Ethanol  
amine, biological studies 525-64-4, 2,7-Diamino fluorene  
591-27-5, 3-Aminophenol 1198-27-2, 2-Naphthalenol,  
1-amino-,hydrochloride 1953-54-4, 5-Hydroxyindole 2207-29-6  
2274-63-7 2835-95-2, 5-Amino-2-methylphenol 2835-99-6,  
4-Amino-3-methylphenol 3240-72-0, 5,6-Diamino-2,4-  
dihydroxypyrimidine 3523-28-2 4338-98-1 6358-09-4,  
2-Amino-6-chloro-4-nitrophenol 6369-59-1, 1,4-Benzenediamine,  
2-methyl-, sulfate 10199-89-0, 7-Chloro-4-nitro-2,1,3-  
benzoxadiazole 15639-38-0 15639-43-7 15944-78-2 16322-19-3  
16461-98-6, 1H-Pyrazole-3,4-diamine 18333-73-8 18392-74-0  
18392-77-3 18392-78-4, 4-Bromo-5-methyl-7-nitro-2,1,3-  
benzothiadiazole 18453-42-4 19951-28-1 19951-33-8 20718-28-9  
20718-47-2 20718-48-3 23920-15-2 26455-21-0 26460-78-6  
29270-56-2, 4-Fluoro-7-nitro-2,1,3-benzoxadiazole 29705-39-3  
32014-70-3 33229-34-4 35128-56-4 45514-38-3,  
4,5-Diamino-1-methyl-1H-pyrazole 49647-58-7, 2,4,5,6-

Tetraaminopyrimidine sulfate 52120-98-6 56932-44-6 62625-14-3  
 65235-31-6, 4-[(2-Hydroxyethyl)amino]-3-nitrophenol 66170-46-5,  
 1,4-Benzenediamine, 2-methyl-, hydrochloride 68579-76-0  
 69825-83-8 70643-19-5, 2,4-Diamino-1-(2-hydroxyethoxy)benzene  
 70733-34-5 71005-35-1 81432-10-2 81892-72-0,  
 1,3-Di(2,4-diaminophenoxy)propane 83763-47-7, 2-Amino-4-[(2-  
 hydroxyethyl)amino]anisole 89365-28-6 89365-31-1 89365-32-2  
 89793-88-4 90841-38-6 91267-92-4 93841-24-8,  
 1,4-Diamino-2-(2-hydroxyethyl)benzene 93841-25-9 94158-13-1  
 95576-89-9 100418-33-5, 4-[(2-Hydroxyethyl)amino]-3-nitro-1-  
 methylbenzene 104516-93-0 125292-42-4 131202-67-0  
 131202-71-6 131311-66-5 131657-78-8, 2-Chloro-6-ethylamino-4-  
 nitrophenol 132885-85-9 155601-16-4 155601-17-5,  
 4,5-Diamino-1-(2-hydroxyethyl)-1H-pyrazole 157469-54-0  
 164919-03-3 227199-11-3 257932-06-2 257932-07-3 329320-36-7,  
 1,4-Diamino-2-(1-hydroxyethyl)benzene 364343-79-3 404839-62-9  
 404839-63-0 404839-64-1

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (hair dyes contg. benzoxadiazole,  
 benzothiadiazole and benzo-selenadiazole derivs.)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR  
 THIS RECORD. ALL CITATIONS AVAILABLE IN  
 THE RE FORMAT

L29 ANSWER 14 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1975:607580 HCAPLUS

DOCUMENT NUMBER: 83:207580

TITLE: What is the meaning of the aldehyde  
 determination in photographic gelatin

AUTHOR(S): Pouradier, J.; Colliere, G.

CORPORATE SOURCE: Lab. Rech., Soc. Kodak-Pathe, Vincennes, Fr.

SOURCE: Journal of Photographic Science (1975  
 ), 23(3), 106-12  
 CODEN: JPTSAB; ISSN: 0022-3638

DOCUMENT TYPE: Journal

LANGUAGE: English

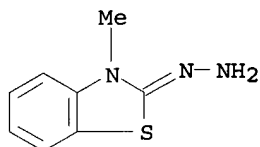
AB Nucleic acids, oses, polyoses, lipids, and amino acids in gelatin  
 simulate the action of aldehydes with the reagents thiobarbituric  
 acid and 3-methyl-2-benzothiazolone hydrazone [1128-67-2]  
 used to det. aldehydes in photographic gelatin, thus introducing  
 major errors. These tests should serve only as control operations  
 rather than actual analyses.

IT 1128-67-2P

RL: IMF (Industrial manufacture); PREP (Preparation)  
 (prepn. of)

RN 1128-67-2 HCAPLUS

CN 2(3H)-Benzothiazolone, 3-methyl-, hydrazone (9CI) (CA INDEX NAME)



CC 41-2 (Leather and Related Materials)

Section cross-reference(s): 74, 80

IT Gelatins, analysis

RL: ANST (Analytical study)  
 (aldehyde detn. in photographic, aldehyde  
 precursor effect on)

IT Aldehydes, analysis

RL: ANT (Analyte); ANST (Analytical study)  
 (detn. of, in photographic gelatin, aldehyde)



precursor effect on)  
 IT Photographic emulsions  
 (gelatins for, aldehyde detn. in, aldehyde  
 precursor effect on)  
 IT 67-52-7DP, 2,4,6(1H,3H,5H)-Pyrimidinetrione, thio derivs.  
 1128-67-2P  
 RL: IMF (Industrial manufacture); PREP (Preparation)  
 (prepn. of)

L29 ANSWER 15 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1975:160106 HCAPLUS  
 DOCUMENT NUMBER: 82:160106  
 TITLE: Oxidative hair dye  
 INVENTOR(S): Saygin, Ferdi  
 PATENT ASSIGNEE(S): Henkel und Cie. G.m.b.H.  
 SOURCE: Ger. Offen., 11 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2334738	A1	19750130	DE 1973-2334738	19730709

PRIORITY APPLN. INFO.:

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 DE 1973-2334738 A  
 19730709

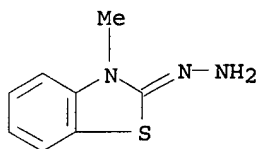
GI For diagram(s), see printed CA Issue.

AB Forty-four pairs of I (R = H, Me; R1 = H, Cl, Me, OMe, NMe2) as couplers and several N bases as developers are tabulated. They are used by adding 0.01 mole of each to an emulsion of C12-18 fatty alc. 10, C12-18 Na alkyl sulfate 10, and water 75 wt. parts, adding NH3 to pH 9.5, the dye being developed by 1% H2O2 [7722-84-1] in 30 min. A wide range of colors can be produced by emulsions, creams, or gels.

IT 1128-67-2 28219-35-4  
 RL: BIOL (Biological study)  
 (hair dye developer)

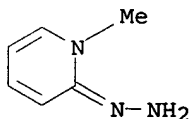
RN 1128-67-2 HCAPLUS

CN 2(3H)-Benzothiazolone, 3-methyl-, hydrazone (9CI) (CA INDEX NAME)



RN 28219-35-4 HCAPLUS

CN 2(1H)-Pyridinone, 1-methyl-, hydrazone (9CI) (CA INDEX NAME)



IC A61K  
 CC 62-3 (Essential Oils and Cosmetics)  
 ST hair dye quinolone  
 IT Hair  
 (dyes for, contg. quinazolinone couplers)  
 IT 1677-44-7 1677-46-9 1900-41-0 14300-45-9 31136-93-3  
 31136-95-5 54675-24-0 55198-96-4  
 RL: BIOL (Biological study)  
 (hair dye coupler)  
 IT 95-70-5 99-98-9 1128-67-2 5307-02-8 13558-27-5  
 28219-35-4 55198-95-3  
 RL: BIOL (Biological study)  
 (hair dye developer)  
 IT 7722-84-1, biological studies  
 RL: BIOL (Biological study)  
 (hair dyes contg.)

L29 ANSWER 16 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1973:99042 HCAPLUS  
 DOCUMENT NUMBER: 78:99042  
 TITLE: Diazamerocyanine dyes in hair  
 -coloring media  
 INVENTOR(S): Lang, Gerard; Bugaut, Andree  
 PATENT ASSIGNEE(S): Oreal S. A.  
 SOURCE: Ger. Offen., 50 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2227214	A	19721214	DE 1972-2227214	197206 05
FR 2140205	A1	19730112	FR 1972-19934	197206 02
FR 2140205 CH 560539	B1 A	19771223 19750415	CH 1972-8234	197206 02
CA 1021324	A1	19771122	CA 1972-143789	197206 02
IT 982408	A	19741021	IT 1972-68758	197206 03
GB 1360562	A	19740717	GB 1972-26204	197206 05
US 3985499	A	19761012	US 1975-554701	197503 03
GB 1491930	A	19771116	GB 1975-35786	197508

29

US 4151162 A 19790424 US 1976-707769 <--  
197607  
22

CA 1020463 A2 19771108 CA 1976-258919 <--  
197608  
11

PRIORITY APPLN. INFO.: LU 1971-63287 A <--  
197106  
04

LU 1972-64565 A <--  
197201  
06

CA 1972-143789 A3 <--  
197206  
02

GB 1972-26204 A <--  
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US 1972-259689 A2 <--  
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LU 1974-70835 A <--  
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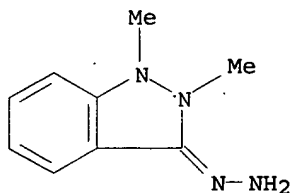
US 1975-554701 A3 <--  
197503  
03

AB Diazamerocyanine dyes I (R = H, RR1 = CH:CHCH:CH, R1 = H, Me, Ph, R2 = Me, Ph, R3 = substituted 4-imino- or 4-oxo-2,5-cyclohexadien-1-ylidene residue, 1-phenyl-3-methyl-5-oxo-2-pyrazolin-4-ylidene, Q = S, NMe and II and/or their acid salts were prepd. and used in hair waving lotions contg. cosmetic resins for dyeing hair at pH 3-8. Thus, 4,3-Me(HO)C6H3NH2 and NH4OH in EtOH was added to a soln. of 3-methyl-2-benzothiazolinone hydrazone, stirred, and (NH4)2S2O8 was added to give diazamerocyanine dye (III) [39219-05-1]. The other I and II were similarly prepd. hair waving lotions were prepd. using I and II.

IT 28219-31-0  
RL: USES (Uses)  
(reaction with 6-hydroxybenzomorpholine)

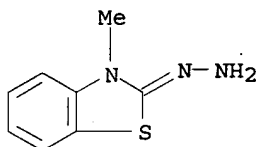
RN 28219-31-0 HCAPLUS

CN 3H-Indazol-3-one, 1,2-dihydro-1,2-dimethyl-, hydrazone, hydrochloride (9CI) (CA INDEX NAME)

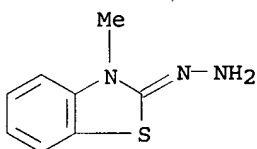


●x HCl

IT 1128-67-2  
 RL: USES (Uses)  
 (reaction with aminophenols and related compds.)  
 RN 1128-67-2 HCAPLUS  
 CN 2(3H)-Benzothiazolone, 3-methyl-, hydrazone (9CI) (CA INDEX NAME)

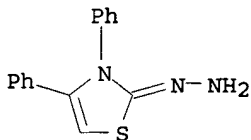


IT 41338-96-9 41339-01-9 41339-03-1  
 RL: USES (Uses)  
 (reaction with hydroxybenzomorpholine)  
 RN 41338-96-9 HCAPLUS  
 CN 2(3H)-Benzothiazolone, 3-methyl-, hydrazone, dihydrochloride (9CI)  
 (CA INDEX NAME)

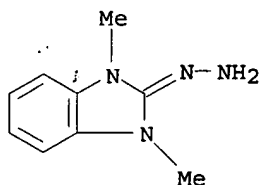


●2 HCl

RN 41339-01-9 HCAPLUS  
 CN 2(3H)-Thiazolone, 3,4-diphenyl-, hydrazone (9CI) (CA INDEX NAME)



RN 41339-03-1 HCAPLUS  
 CN 2H-Benzimidazol-2-one, 1,3-dihydro-1,3-dimethyl-, hydrazone,  
 dihydrochloride (9CI) (CA INDEX NAME)



## ●2 HCl

IC A61K  
 CC 40-4 (Dyes, Fluorescent Whitening Agents, and Photosensitizers)  
 ST diazamerocyanine **hair dye**; merocyanine  
**hair dye**; cyanine **hair dye**  
 IT **Dyes**, cyanine  
 (diazamerocyanine, **hair**)  
 IT **Hair**  
 (dyes for, diazamerocyanine and azo derivs. of  
 quaternized heterocycle as)  
 IT **Dyeing**  
 (of **hair**, compns. for)  
 IT **28219-31-0**  
 RL: USES (Uses)  
 (reaction with 6-hydroxybenzomorpholine)  
 IT **1128-67-2**  
 RL: USES (Uses)  
 (reaction with aminophenols and related compds.)  
 IT **41338-96-9** **41338-99-2** **41339-01-9**  
**41339-03-1**  
 RL: USES (Uses)  
 (reaction with hydroxybenzomorpholine)

L29 ANSWER 17 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1970:124993 HCAPLUS  
 DOCUMENT NUMBER: 72:124993  
 TITLE: Oxidative **dyes** for **hair**  
 INVENTOR(S): Maul, Rudolf; Rehberg, Rolf  
 PATENT ASSIGNEE(S): Therachemie Chemisch-Therapeutische G.m.b.H.  
 SOURCE: Ger. Offen., 25 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1922400	A	19691204	DE 1969-1922400	196905 02
DE 1922400	C3	19781123		
AT 282072	B	19700610	AT 1968-5206	196805 30
FR 1599968	A	19700720	FR 1968-1599968	196812 24
NL 6906270	A	19691202	NL 1969-6270	

196904  
23

&lt;--

NL 162558 B 19800115  
 NL 162558 C 19800616  
 DK 122006 B 19720103 DK 1969-2231

196904  
23

&lt;--

US 3634013 A 19720111 US 1969-827924

196905  
26

&lt;--

BE 733731 A 19691128 BE 1969-733731

196905  
28

&lt;--

GB 1219035 A 19710113 GB 1969-1219035

196905  
29

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CH 524369 A 19720630 CH 1969-524369

196905  
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PRIORITY APPLN. INFO.: AT 1968-5206

A

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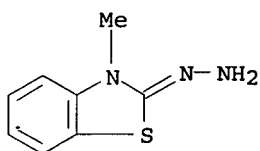
AB Hair dye creams are prepd. from heterocyclic hydrazones, appropriate couplers and H2O2. For example, 2 parts N-methyl-2-benzothiazolone hydrazone and 1.54 parts 2,4-(H2N)2C6H3OMe were added to an emulsion of fatty alc. 10, fatty alc. sulfate 10 and H2O 70 parts (pH 9.5) and treated with 1 part H2O2 to give a cream. Grey hairs were dyed with the cream at 20° for 30 min in dark brown red shade. Creams similarly prepd. were (hydrozone, coupler and shade of dyed hairs given): N-methyl-2-thiazolidone hydrazone, 1,5(HO)2C10H6 (I), brown red; 1,2-dimethyl-3-indazolone hydrazone-HCl (II), I, blue-violet; II, resorcinol, grey-brown.

IT 1128-67-2 13545-99-8 20065-04-7  
 20065-05-8 20065-06-9 21337-45-1  
 21817-85-6 27256-92-4 28218-86-2  
 28218-89-5 28218-90-8 28218-93-1  
 28218-95-3 28218-96-4 28218-97-5  
 28218-98-6 28218-99-7 28219-00-3  
 28219-01-4 28219-02-5 28219-03-6  
 28219-04-7 28219-05-8 28219-06-9  
 28219-07-0 28219-08-1 28219-09-2  
 28219-10-5 28219-11-6 28219-30-9  
 28219-31-0 28219-33-2 28219-35-4  
 28219-36-5 28219-38-7 28219-39-8  
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 28381-00-2

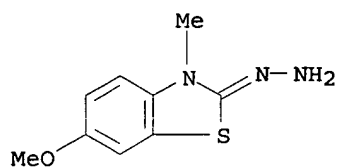
RL: BIOL (Biological study)  
 (dyes, for hair creams)

RN 1128-67-2 HCAPLUS

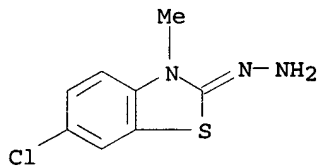
CN 2(3H)-Benzothiazolone, 3-methyl-, hydrazone (9CI) (CA INDEX NAME)



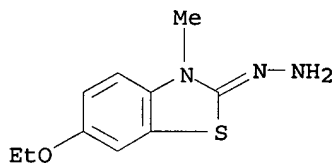
RN 13545-99-8 HCAPLUS  
 CN 2(3H)-Benzothiazolone, 6-methoxy-3-methyl-, hydrazone (9CI) (CA INDEX NAME)



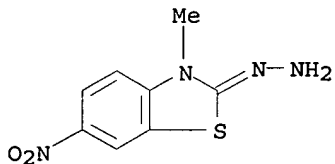
RN 20065-04-7 HCAPLUS  
 CN 2(3H)-Benzothiazolone, 6-chloro-3-methyl-, hydrazone (9CI) (CA INDEX NAME)



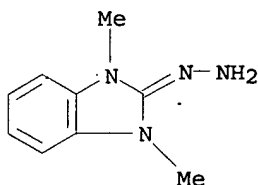
RN 20065-05-8 HCAPLUS  
 CN 2(3H)-Benzothiazolone, 6-ethoxy-3-methyl-, hydrazone (9CI) (CA INDEX NAME)



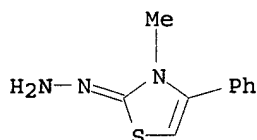
RN 20065-06-9 HCAPLUS  
 CN 2(3H)-Benzothiazolone, 3-methyl-6-nitro-, hydrazone (9CI) (CA INDEX NAME)



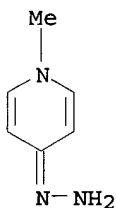
RN 21337-45-1 HCAPLUS  
 CN 2H-Benzimidazol-2-one, 1,3-dihydro-1,3-dimethyl-, hydrazone (9CI) (CA INDEX NAME)



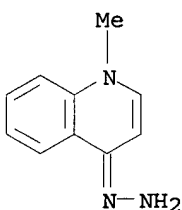
RN 21817-85-6 HCAPLUS  
 CN 2(3H)-Thiazolone, 3-methyl-4-phenyl-, hydrazone (9CI) (CA INDEX NAME)



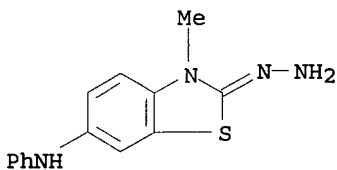
RN 27256-92-4 HCAPLUS  
 CN 4(1H)-Pyridinone, 1-methyl-, hydrazone (9CI) (CA INDEX NAME)



RN 28218-86-2 HCAPLUS  
 CN 4(1H)-Quinolinone, 1-methyl-, hydrazone (9CI) (CA INDEX NAME)

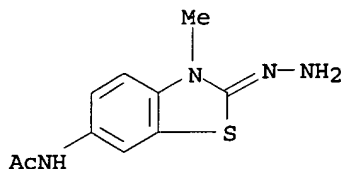


RN 28218-89-5 HCAPLUS  
 CN 2(3H)-Benzothiazolone, 3-methyl-6-(phenylamino)-, hydrazone (9CI)  
 (CA INDEX NAME)

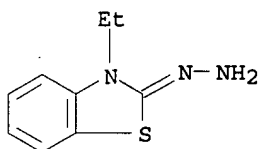




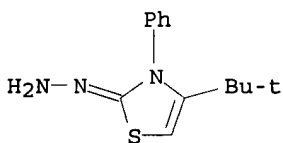
RN 28218-90-8 HCAPLUS  
 CN Acetamide, N-(2-hydrazono-2,3-dihydro-3-methyl-6-benzothiazolyl)-  
 (9CI) (CA INDEX NAME)



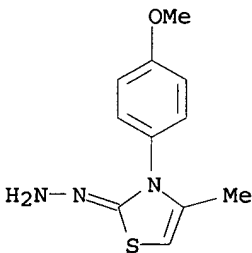
RN 28218-93-1 HCAPLUS  
 CN 2(3H)-Benzothiazolone, 3-ethyl-, hydrazone (9CI) (CA INDEX NAME)



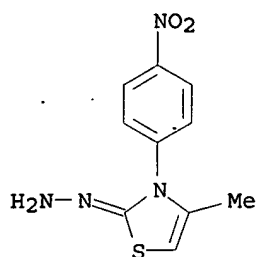
RN 28218-95-3 HCAPLUS  
 CN 2(3H)-Thiazolone, 4-(1,1-dimethylethyl)-3-phenyl-, hydrazone (9CI)  
 (CA INDEX NAME)



RN 28218-96-4 HCAPLUS  
 CN 2(3H)-Thiazolone, 3-(4-methoxyphenyl)-4-methyl-, hydrazone (9CI)  
 (CA INDEX NAME)

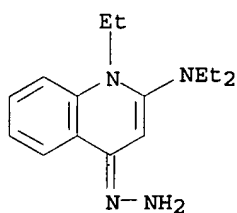


RN 28218-97-5 HCAPLUS  
 CN 4-Thiazolin-2-one, 4-methyl-3-(p-nitrophenyl)-, hydrazone (7CI, 8CI)  
 (CA INDEX NAME)



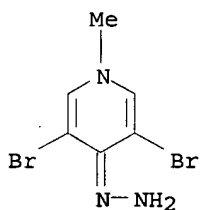
RN 28218-98-6 HCAPLUS

CN 4(1H)-Quinolone, 2-(diethylamino)-1-ethyl-, hydrazone (6CI, 8CI)  
(CA INDEX NAME)



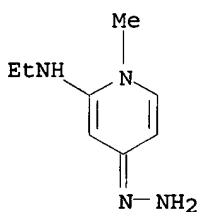
RN 28218-99-7 HCAPLUS

CN 4(1H)-Pyridone, 3,5-dibromo-1-methyl-, hydrazone (8CI) (CA INDEX NAME)



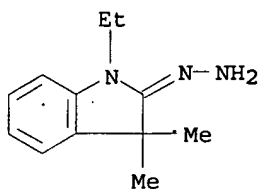
RN 28219-00-3 HCAPLUS

CN 4(1H)-Pyridone, 2-(ethylamino)-1-methyl-, hydrazone (8CI) (CA INDEX NAME)



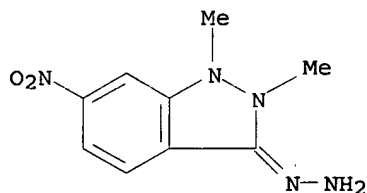
RN 28219-01-4 HCAPLUS

CN 2H-Indol-2-one, 1-ethyl-1,3-dihydro-3,3-dimethyl-, hydrazone (9CI)  
(CA INDEX NAME)



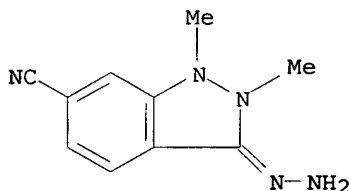
RN 28219-02-5 HCAPLUS

CN 3-Indazolinone, 1,2-dimethyl-6-nitro-, hydrazone (7CI, 8CI) (CA INDEX NAME)



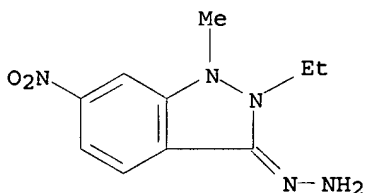
RN 28219-03-6 HCAPLUS

CN 6-Indazolinecarbonitrile, 1,2-dimethyl-3-oxo-, hydrazone (8CI) (CA INDEX NAME)



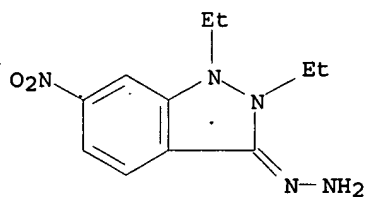
RN 28219-04-7 HCAPLUS

CN 3-Indazolinone, 2-ethyl-1-methyl-6-nitro-, hydrazone (8CI) (CA INDEX NAME)

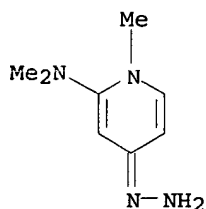


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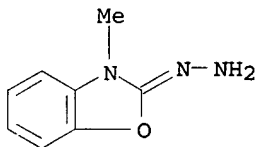
CN 3-Indazolinone, 1,2-diethyl-6-nitro-, hydrazone (8CI) (CA INDEX NAME)



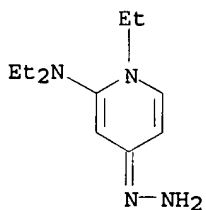
RN 28219-06-9 HCAPLUS  
 CN 4(1H)-Pyridone, 2-(dimethylamino)-1-methyl-, hydrazone (8CI) (CA INDEX NAME)



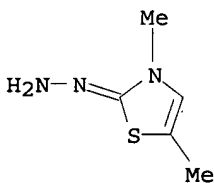
RN 28219-07-0 HCAPLUS  
 CN 2(3H)-Benzoxazolone, 3-methyl-, hydrazone (9CI) (CA INDEX NAME)



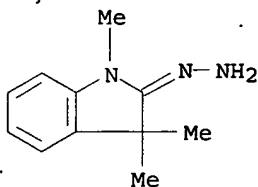
RN 28219-08-1 HCAPLUS  
 CN 4(1H)-Pyridone, 2-(diethylamino)-1-ethyl-, hydrazone (8CI) (CA INDEX NAME)



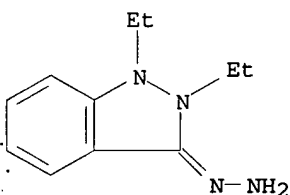
RN 28219-09-2 HCAPLUS  
 CN 4-Thiazolin-2-one, 3,5-dimethyl-, hydrazone (8CI) (CA INDEX NAME)



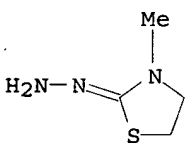
RN 28219-10-5 HCAPLUS  
CN 2-Indolinone, 1,3,3-trimethyl-, hydrazone (8CI) (CA INDEX NAME)



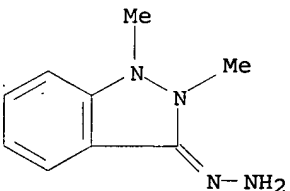
RN 28219-11-6 HCAPLUS  
CN 3-Indazolinone, 1,2-diethyl-, hydrazone (8CI) (CA INDEX NAME)



RN 28219-30-9 HCAPLUS  
CN 2-Thiazolidinone, 3-methyl-, hydrazone (8CI) (CA INDEX NAME)

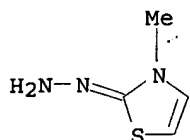


RN 28219-31-0 HCAPLUS  
CN 3H-Indazol-3-one, 1,2-dihydro-1,2-dimethyl-, hydrazone, hydrochloride (9CI) (CA INDEX NAME)

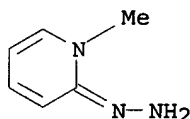


●x HCl

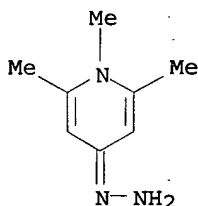
RN 28219-33-2 HCAPLUS  
CN 2(3H)-Thiazolone, 3-methyl-, hydrazone (9CI) (CA INDEX NAME)



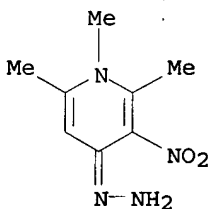
RN 28219-35-4 HCAPLUS  
CN 2(1H)-Pyridinone, 1-methyl-, hydrazone (9CI) (CA INDEX NAME)



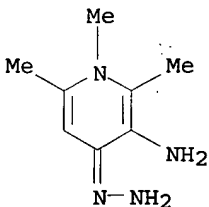
RN 28219-36-5 HCAPLUS  
CN 4(1H)-Pyridinone, 1,2,6-trimethyl-, hydrazone (9CI) (CA INDEX NAME)



RN 28219-38-7 HCAPLUS  
CN 4(1H)-Pyridinone, 1,2,6-trimethyl-3-nitro-, hydrazone (9CI) (CA INDEX NAME)

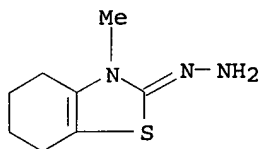


RN 28219-39-8 HCAPLUS  
CN 4(1H)-Pyridinone, 3-amino-1,2,6-trimethyl-, hydrazone (9CI) (CA INDEX NAME)



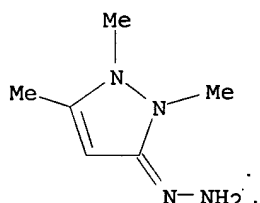
RN 28219-40-1 HCAPLUS  
CN 2(3H)-Benzothiazolone, 4,5,6,7-tetrahydro-3-methyl-, hydrazone (9CI)

(CA INDEX NAME)



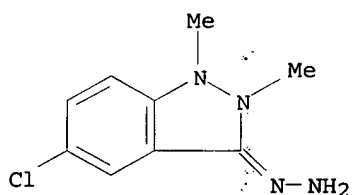
RN 28219-41-2 HCAPLUS

CN 3H-Pyrazol-3-one, 1,2-dihydro-1,2,5-trimethyl-, hydrazone (9CI) (CA INDEX NAME)



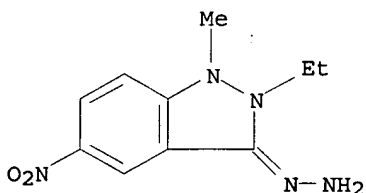
RN 28219-42-3 HCAPLUS

CN 3-Indazolinone, 5-chloro-1,2-dimethyl-, hydrazone (8CI) (CA INDEX NAME)



RN 28381-00-2 HCAPLUS

CN 3H-Indazol-3-one, 2-ethyl-1,2-dihydro-1-methyl-5-nitro-, hydrazone (9CI) (CA INDEX NAME)



IC A61K

CC 62 (Essential Oils and Cosmetics)

ST hair dye hydrazone; dye hair hydrazone; hydrazone hair dye

IT Hair (dyes for, hydrazones for)

IT Dyes (hydrazones, hair)

IT 1128-67-2 13545-99-8 20065-04-7 20065-05-8 20065-06-9 21337-45-1

21817-85-6 27256-92-4 28218-86-2  
28218-87-3 28218-89-5 28218-90-8  
28218-93-1 28218-95-3 28218-96-4  
28218-97-5 28218-98-6 28218-99-7  
28219-00-3 28219-01-4 28219-02-5  
28219-03-6 28219-04-7 28219-05-8  
28219-06-9 28219-07-0 28219-08-1  
28219-09-2 28219-10-5 28219-11-6  
28219-30-9 28219-31-0 28219-33-2  
28219-35-4 28219-36-5 28219-38-7  
28219-39-8 28219-40-1 28219-41-2  
28219-42-3 28381-00-2

RL: BIOL (Biological study)  
(dyes, for hair creams)

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